BL in talks with

Japanese group

on UK venture

BY ARTHUR SMITH, MIDLANDS CORRESPONDENT

company about collaboration on car assembly in the UK.

chairman, has called a confer-

pussible deal are expected to be

discussed.

BL has made no secret of the

need for some farm of collaboration or partnership to guarantee the long-term making of

tee the long term whibity of its car production is a six of the obvious weakness is is middle-range case, where the LC-10 replacement for the Marina and Allegro, scheduled for Cowley, Caronic is not expected to be 12549 for the market until 1253.

Shortage of technical assources has delayed development of the new car and raised doubts as to whether BL will be

doubts as to whether BL will is

have made little progress.

BY ELINOR GOODMAN, LOBBY STAFF

THE HOME Secretary sais yes-

terday that steps had aleady been taken to tighter the

But hoth Mr. Merlyn Rees. and Mr. David Howell, a Con-

man on Home Affairs, stressed

that terrorist activities should

not be allowed to interfere with

Nevertheless, Mr. Neaves'

death cast a shadow ver the

weekend and the unofficial cam-

paign got off to a muted start. MPs were still clearly shocked hy the incident, Mrs. Margaret

Thatcher had still not decided whether to use her right to reply as Leader of the Copesi-

tion to make a ministerial broad-

cast before the time limit ex-

Conservative Press -dvertise-

ments for the Sunday papers were cancelled hecause of Mr.

Neaves' death and Mrs Thatcher

seems unlikely to campaign publicly until his funcial on

Mrs. Thatcher's hopes of win-ning a clear majority of May 3 were given a further boost

Wednesday or Thursday

the election.

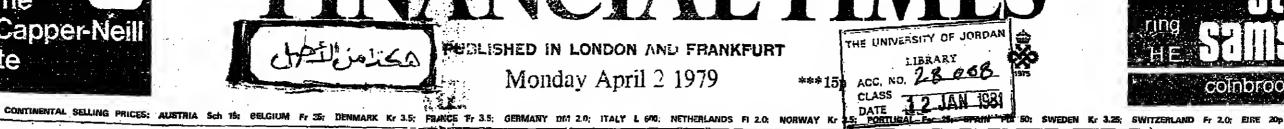
pires tonight.

servative front hench spokes per cent.

for the project.

able to generate enough finance

Monday April 2 1979





coInbrook 313

# NEWS SUMMARY

BUSINESS

ENERAL

# Beaten talian remier esigns

Italian coalition evernment of Christian Demominerate was defeated in the enter confidence debate at the feekend by one vote, opening to way for an early General

After the 150-149 vote, Signature Andreotti. Prime

ion to Sig. Sandro Pertini, the Hallan President.

Sig. Partinl is now expected in missive. Parliament to comin the General Election with in the General Election with including for the European adjament due in Italy on the 10. Back Page

### ttack planned

andan exile forces yesterday aimed that they were still in position to take the capital Kampala in spite of conmed reports that they had en driven back 20 miles from clty in an assault appar-ity spearbeaded by Libyan pops supporting President Idi

hemb hurts four

car bomb explosion vesterday fine centre of Omagh, County rone injured a policeman aod e civilians, and damaged of shop fronts. Police ald they were clearing the area tter a warning when the bomb

estage freed

Salvador guerrillas have ised the Japanese businessheld hostage in El Salvador

givour of the move. At the is of voting three soldiers is killed and another builded by gunnen who will fire outside a Tehran build station. Page 2

## Merrilla theory

the police believe thieves it stole about £500,000 worth old and plantinum from the n-Rome express could bave urhan guerrillas. The stopped the train by using ectronic device to change sizoal, and unhonked the ive carriages carrying the

fortage feared

mers have warned that the The Arctic winter is likely to in the during the summer the latest wet, cold the latest wet, cond ther is preventing sowing. and winter hits National Bus fits, Page 4

### apital joke

in fell for the station's bill Fool joke. They jammed switchboard with protest s after an announcement t the Government planned to kel the next two Thursdays.

## tiefly . . .

ath toll in the Golborne Hiery disaster two weeks ago e yesterday to 10 with the in ip hospital of Raymond I is

eckage of a light aircraft Sing since Friday was found terday in Clwyd, Wales. Both it and passenger were dead.

n died in a fall yesterday at Pheros Crag, Borrowdale, in Lake District.

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# Row hits pay talks for civil

servants SERVICE'S biggest unions decided vesterday to try to dismantle the whole national negotiating machinery for Britain's 600,000 civil servants in a bout of inter-union wrangling.

Today, civil servants are staging a one-day strike, which is likely to affect civil aviation, courts and government services.

• UK INDUSTRY's confidence about economic prospects continued to decline last month, according to the FT survey of business opinion. Confidence remains at the lowest level since the end of 1976, when the International Monetary Fund loan package was being negotiated. Back Page

 EEC FINANCE and Foreign Ministers today begin a meeting in Luxembourg to discuss the Community's budget and European political problems. The British team, led by Dr. David Owen, the Foreign Secretary, is expected to protest at the con-tribution levied from Britain. Back Page

GOVERNMENT funds of about £100m £150m are ex-pected to be announced today or BL, formerly British Leyland, and the way will be cleared for the Industry Bill to receive Royal Assent giving the NEB a borrowing ceiling of £4.500. Back Page

## OPEC price rise takes effect

by almost four months. The confidence of the two Brilons abducted by an average, 17 per confidence of the same time is unknown.

Soublic vote the confidence of the two-day at least \$70 m (£355m) a year more as a result of arrangements with least of the two-day ments with least of the same time of the same time of the two-day of the tw results of the two-day ments with leading exporters including showed 97 per cent last week.

> • STERLING'S strength Is is Britain's biggest economic problem at present according to a forecast by a group of Cambridge economists. Page 4

BANK LENDING to manufacturing industry rose sharply in the three months to mid February, although the Bank of England's figures are likely to have heen boosted by indus trial dispytes. Page 9

\* ROLLS-ROYCE MOTORS has started talks with U.S. Teledyne Continental Motors Corp., about a possible licence agreement to make / R-R military diesel engines in the U.S. Page 4

## LABOUR

TEAMSTERS' unlon in the U.S. announced that it would immediately start selective strikes against American road haulage concerns following a hreakdown in pay talks. Back

teners to London's Capital OFFICIAL PAY review body may recommend to the Government in about a month to give salary increases of 5-10 per cent to chairmen of nationalised industries and top civil servants.

### COMPANIES

 BROKEN HILL Proprietary. Australia's largest company, ls to make a one-for-five scrip issue, its first since 1974, following a sharp jump in profit for the November half-year- to A\$87m (£47.8m) which exceeds the full 1977-78 profits. Page 29

● LAIRD GROUP second half profits rose to £6.29m (£5.08m) bringing 1978's pre-tax profit to £11.12m (£9.09m). Page 28

tronics and TV set manufacturers, is understood to he conducting serious negotiations sized U.S. company, Modular Computer Systems, of Fort

Lauderdale, Florida.

Hopes of an early link with Renault, the French State com-pany, bave faded. Talks about joint ventures in component manufacture and assemby the U.S. the company will trade whether Japanese Involvement in the UK might provide a springhoard for wider European under Jaguar Rover Triumph Inc. and elsewhere it will be The obvious advantage for the springboard for wider European Jacuar Rover Triumph Canada Japanese of co-operation with BL would be to sidestep project

BL refused to comment last querter of Eritish output.

BL refused to comment last querter of Eritish output.

BL refused to comment last querter of Eritish output. Jacuar Rover Triumph Canada, North America takes about a

Rees announces tighter

security for MPs

made components built up.

The issue scenis bound to other cests.
figure in the General Election Mr. Edw. Mr. Edwardes made clear at the ::nouncement of the annual dehate. The Conservative Bow Group recommended in a recent pamphlet that BL should be tirged to seek a joint venture results last month that no big plant closures were envisaged. He specifically ruled out closure

Negotiations would undought workers on assembling the Mini-edly be sensitive. BL is looking and Aliegra, has recently been

working only two weeks in four

with Japan, of Scneffe,
The political implications. Jaguar Rover Triumph has
however, spread far beyond changed the names of its North Britain. The question is likely to be raised in the EEC of

for the quick introduction of a

a stop-gap. The attraction of any deal would depend partly on how rapidly the use of British-

# inspects leaking N-plant

Carter

By David Buchan in Washington

PRESIDENT CARTER yester day flew to the crippled Penn-Talks are taking place between BL, formerly British Leyland, and a Japanese sylvania nuclear plant, whose reactor was reported stable and conling very slowly—but atill plagued hy a build-up of hydrogen gas inside. Mr. Michael Edwardes, Ell versy surrounds the unofficial but demed that plans had been chairman, has called a conference of senior executives and union leaders in London next between 10 and 11 per cent.

Monday at which details of any personness have accorded to be between 10 and 11 per cent.

Senealc, which employs 3,000

The inspection tour hy the President reflects the intense national concern focussed on the Three Mile Island plant since it was hit by an accident last Wednesday and poten-ially dangerous complications

new middle-range car to sate- because of weak demand. BL guard employment at Cowley, said that the plant had been where the Marina and Maxi are under review, with others in the Four workers of Metropoliporduced.

Licensed assembly of a called for by Mr. Edwardes
Japanese car could only provide more than 12 months ago. tan-Edison, the power company operating the plant, have been exposed on the site to more In spile of the good performance of the Belgiao plant, unit radiation than is considered safe over a three-mooth period, cos of vehicles was about £200 Low-level radioactive gas is still higher because of transport and escaping to a wider area around

Pregnant women and vonng children have been advised by the Gorernor of Pennsylvania tn stay at least five miles from the plant. In all, a couple of thousand couple are helicved to have left the immediate area! American sales companies. In

Mr. Joseph Hendric, chair man of the Nuclear Regulatory Commission (NRC), which is co-ordinating the attempted shut-down of the plant, said steps to get rid of the hydrogen gas bubble luside the reactor within the next day or so might entail evacuating all people 10 tn 20 miles downwind of the plant, sited on an Island lifthe Susquehanna river

The nuclear accident and The nuclear accident and public fears about its aftermate will inevitable been heariff on the energy colicy statement has the President is expected to issue shortly. Mr. Caffer, who visited the sie of a danadlan nuclear accident in 1945 while a nuclear estimetr in 1945 while a nuclear estimetr in the U.S. Navy. Incycled the reactor's control only a day after the NRC amounts of the properties there was a few first properties and the first properties and the first properties and the first properties. The poll, which will be repeated though our what it regards as hy Morplan for the Weekend the promitics for the forthcom-World programme even week to assumate.

Throughout the companions of the forthcome throughout the companions of the

other reactors of an eight demonstrators were cielit reactors in California.

Corfew in Middlelown, Page 2 U.S. reactor disaster-threat

the survey also showed the stem of the daily press con-the voters in these key con farances until the following stituencies thought the Con week even it, as expected, the servatives would be the best other narties started theirs on party to deal with all the major And 9, issues except unemployment. Labour had hoped that Mrs. The voters main concern was Tintcher might expose what the regard as her weaknesses lonks as if the Conscreas will try to project other low ministers during the week of the campaign

to nuclear policy, Page 14

# decides to boycott Egypt BY ROGER MATTHEWS IN BAGHDAD A DECISION by the Arab League at the weekend to im-

Arab League

pose an almost total political, diplomatic and economic boy-cott on Egypt is seen in Iraq as a decisive switch in the Arab

oil-producing Gulf states to join more militant Arab countries in working directly against the Egyptian-Israeli peace treaty and against efforts by the U.S. to make the treaty a cornerstone for wider settlements in the Middle East.

The agreement by 19 of the League's; 21 members was greeted as a triumph for Arab

Sudan and Oman did not agree. They bave consistently sup-ported President Sadat's peace initiative and sent no reprcsentatives to Baghdad.
For the Palestine liberation

organisation, the outcome, after five days of intensive bargain-ing by foreign and Economic Ministers, was bailed as a "great

### Saudis' price

For Prince Saud Al-Feisal, the Saudi Foreign Minister, it was an occasion of "regret and sudness" that Presideol Anwar sadness that Presideol Anwar sadat had made such decisions necessary. Saudi Arabia did not believe that having to take such as Egyptian Government.

As Egypt has agreed to prosanctions against Egypt was a cause for rejoicing, but it would implement all the decisions deached at the conference. Iraq and Syria, which effectively led the opposition to President Sadat's peace effort.

have every reason to feel satissted. They consider their achievements the minimum tled. acceptable," however, Nothing prevents individual states from imposing even too her action against Evypt.

world programme eyed week it fairbailen.

Throughout the companies of the

the Saudis, may be that the identical design. Thirteen anti- conference decisions will force the U.S. to be much stricter arrested on Saturday for clumb, with Israel in the tripartite ing the fence of one of those negotiations, starting to three right reactors in Cultivaria Foreign covernments—as well the occupied West Bank and

many detailed occisions remain in he taken. The Arab Boycott Office in Damuseus has responsihilly for dedning individual elements of the boycott.

The main decisions include suspension of Egypt's member-ship of the Arab League; remoral of Arab League headquarters from Cairo to Tunis-potnin two months; and world's balance of power.

The meeting forced Saudi ambassadors from Cairo.

Arabia and the other moderate

Diplomatic relations are immediate withdrawat of Arab

Diplomatic relations are to be cut in a month after constitu-tional formalities io each country. It is widely expected. however, that many Arah countries will maintain sizeable "interest sections" in Egypt, effectively for diplomatic work.

Luans, bank deposits, guarantees or financial, material or technical contributions to their Egyptian Government or related hodies are to end. Economic ald from Arab funds is to be banned.

Arab joint ventures with the Egyptian Government or its institutions must be helted. That might effect the Arab Organisa-tion for industrialisation, under which an armaments industry is being built up. Work is advanced in Egypt for production of the British Swingare anti-tank missile and the Westland Lynn hellcopter, in a \$400m desi.

As Egypt has agreed to provide Israel with oil, Arah countries will refuse oil to Egypt. Commercial transactions with the Egyptian Government and companies dealing with Israel are banned. Special care will, however, te

taken to maintain good relations with individual Egyptians working in Arab countries.

### Minimum level

The United Nations will be asked to transfer its regional offices from Calra. Members of the conference will seek Egypt's suspension from the Non-Aligned Movement, the Organisation of African Unity and the Islamic Conference.

The scope of those decisions goes beyond the "minimum level" agreed at the Baghdad summit last November and must come as a serious psychological blow to President Sadat. It makes bis financial reliancy on Foreign governments—as well the U.S., supplying 81bn 2 year as pro and anti-nuclear lobbics. The full effect of the same aid, even greater and means interest and concern in the tions will only become clear that the Arab safety net project over the next few months and vided in the past by Saidi. Arabia, Kuwait. Qatar and Abu Dhahi has been removed, Discing even greater emphasis on successful economic policies

# Airlines agree on fare rises

BY MICHAEL DONNE DEFENCE CORRESPONDENT

3 were given a further boost place behind the scenes. At the yesterday by an epinion poll carried out for London Weekend Television in 100 for the tional Executive is to hold approximately the control of the tional Executive is to hold approximately the control of the tional Executive is to hold approximately the control of the tional Executive is to hold approximately the control of the contr

most marginal seats in Britain. emergency meeting today to

5 per cent or more from May 1 to meet soaring fuel bills. More than 100 member-

airlines of the International Air Transport Association reached broad agreement on this rise in Geneva over the meekend. But it is still subject to some final adjustments at a meeting today and to the approval of ail the governments of the airlines involved.

It will then be left to indiwhat level of rises is most approtions that the increases might of this year.

THE WORLD'S major sirlines be as much as 10 per cent were

inflation.

The Conservatives yere ahead on law and order and expectation yesterday and one importance temperative following Mr. Neares' migrary but that with almost a marth to go before the poll. it would not have a hiz affect on the poll.

unt have a hig affect on the pot

The official campaign is not due to start until April 9 and though everything that is add by politicians this week will be

seen in the content of the elec-

tion—including the Chancellof's introduction to the agreed

shorteoed Finance Bill tomore

-much of the activity will take

stem not only from the Iranian oil supplies cut-off but also the general increases in prices announced by OPEC both from January 1 and earlier last week. crude oil price

increases will esuse the cost of aviation gasoline to airlines to rise from the present average worldwide of 48 cents a U.S. vidual airlines to determine gallon to about 60 to 65 cents

THE WORLD'S major arranes are expected to reach final discounted over the weekend agreement today to raise passenger fares and cargo rates by IATA alled the meeting to charge landing fees, navigations or more from May 1 consider fares increases to meet the charge in exchange rates. The airlines have for some hargis have been reduced on side by and airlines have been reduced the point where they say they can no longer sbsorb the increses.
Holiday charter operators are

the then allowing it le

en Mrs. Thatcher and Mr.

papular than the Prime

but that the Conserva

wint to fight the election

device into a straight ram-off

Office is not that Mrs. Thatcher

on colline rather than person-alities and by taking the cam-pain to the country in the first

bornd down in daily press conferenes, they will show the dif-

fere es between the two

Call han

also amplying surcharges on package inclidays, especially those from the UK to the Continent.

British Airways Sovereign holidays, for example, is telling a gallon by mid-summer. A all its clients that they must pay priate to the prevailing econo- further rise to 70 cents or more surcharges up to about 4 per mic circumstances. Sugges a gallon is likely before the end cent or 5 per cent a person on summer holidays.

# Thorn considers U.S. purchase

BY JOHN LLOYD

THORN Electrical Industries, plant at Wokingham, Berkshire, a number of opportunities in one of the UK's leading elect recently opened a test facility the U.S. for the company's products. Further expansion, in either the UK or the Irish Republic, is for the purchase of a medium- planned. A spokesman for Modular

three companies—two large The U.S. company, which bad multinationals and a private sales of \$65m last year and organisation—were interested in employs 1.200 people, manu- huying the company, though the factures computerised process private company's interest was succeeds Mr. Jack Strowger in control equipment. Its custo- now "dormant." Both multi- August. Mr. Laister, managing mers include Union Carbide and nationals were interested in an director of Ellerman, has had International Telephone and outright purchase.

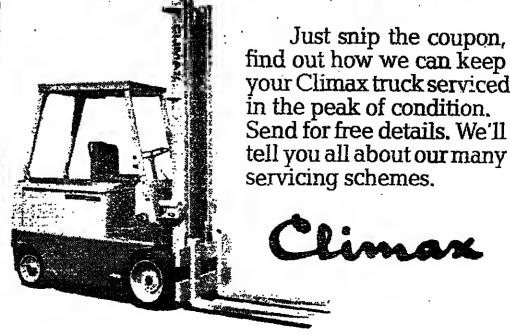
Thorn would make no com-Germany and UK. The UK hut said that it was examining BOC acquired Airco.

Thorn had reserves of £192.7m at the end of the 1977-78 financial year. In the same year, it ahowed a pre-tax profit of £110m on sales of £1.1bn, up from a Computer Systems said that profit of £102m on sales of £993m the previous year. Last week it appounced the

appointment of Mr. Peter Laister as managing director. He senior executive experience in the U.S. as chairman of a British It has subsidiaries in France, ment on the possible purchase. Oxygen bolding company after

To: Coventry Climax Limited, Sandy Lane, Coventry CV1 4DX. Tel: Coventry (0203) 27711. Telex: 311192. Name \_\_ Position\_\_\_\_\_ Company \_\_\_\_\_ Address \_\_\_\_\_

# HORT GUT TO TER SERVICE



Year Ended 31st January, 1979. Extracts from the Directors' Report.

Main Features	1979	1978
Gross Revenue	£5,041,848	£4,604,895
Per Ordinary 25p Stock Unit: Eamings - Basic		:
Eamings - Basic	4.21p	3.77p
Eamings — Fully diluted	4.19p	3.740
Dividend	4.05p	3.52p
Net Assets	£88,308,219	£77,684,414
Net Asset Value per Ordinary 25p Stock Unit:		
Ordinary 25p Stock Unit:		b :
Basic	121.6p	106.2p
Fully diluted	121.1p	105.7p

Your Board are pleased to recommend that the total net dividend per stock unit for the year he reised 15.1 per cent. to 4.05p. This increase compares favourably with the 9.3 per cent. rise in the Reteil Price Index during the year. The edvance in your dividend can be directly attributed to the 13.4 per cent. expension of ster tax revenus available to Ordinary stockholders to a record level of £2.863 millions. Dividend and Revanue

Over the last ten years, your Company's gross dividend has risen by 154.5 per cent. compared with a 129.1 per cent. rise in the notional dividend on the Financial Times All Share Index.

Investments
During the year, the total net assets of your Company advanced by 13.7 per cent. to £88,308 millions. The underlying performances of our twe principal areas of investment, namely the United Kindoom and North America, are detailed below.
The value of the United Kindoom portfolio grew by 8.2 per cent. compared with the 9.6 per cent. increase in the Financial Times Ail Share Index for the same period. Whilst this comparison is perhaps a little disappointing, it should be borne in mind that this index contains 750 constituents, many of which are vary small compenies. By contrast, the Financial Times Industrial Index, representing thirty large companies, was a bare 0.1 per cent. higher for the same peried.

representing thirty large companies, was a bare 0.1 per cent. higher for the same peried. The North American portrollo advanced by 24.5 per cent. This. cempared with a 23.9 per cent. increase to the Standard & Popra Composite Index and e 39.1 per cent. increase in the Foromol Composite Index, both ef these indices being edjusted for movements in the investment currency premium end the exchange rate. In making these comparisons, it should be noted that your Company a Investments in the United States of America ere vilued et more than five times these in Canade. The percentage of total assets invested in North America rose to 35.7 per cent. (1978; 32.4 per cent.), whilst the percentage in the United Kingdom decreased to 63.5 per cent. (1978; 66.3 per cent.). These percentage changes were almost entirely due to relative Stock Market movements together with the merked 56.5 per cent, rate in 1978.

the investment currency premium which now accounts to 11.6 par cent of total nat assets. The 1978 Finance Act introduced legislation lowering the taxion Capital Geins within Investment Trusts from 17 per cent. to 10 per cent. retrospective to April, 1977. This legislation was

The classification and distribution of net assets shows that 15 1 per cent. of total nat essets were invested in the oil and gas exploration sector, both in the United Kingdom and North America. This is in eccordance with our declered policy of an above average portfolio weighting in energy and energy related stocks.

Only time will tell the extent to which the naw regime in Iran will restora lost production, but it is comforting that many of the energy company shareholdings that your Cempany owns stand to behefit from the increased potential-werth of their known reserves of bil, gas end ceal.

Summary
Wa believe that the Stock Markets of the United Kingdom, the
United States of America and Cenede will all be at higher levels in
a year's time. However, in the shoner term, there may well be
reactions to lewer levels. Nevertheless, we believe that conditions
exist in these three erees of investment which are conductive to

Improvement in share markets over the longer term.

Policy
Beth within and eutside tha investment Trust movement there has bean much discussion on the specific roles that Investment Trusts have to play. At such a time, it would therefore seem appropriate to re-stete the policy of your Cempany and te portray his character. Our ebjects continue to be to provide a rate of increase in dividend income in excess of the national inflation rate whilst sittaining an acceptable rate of approciation in the Company's investment essets. It is intended that those objectives should be achieved through the medium of investment in the United Kingdom, the United States of America and Canada, principally in equities, it is not the present intention of your Company to invest, in a significant way, in other areas. We like to feel that these policies are in accordance with the long-term requirements of our shareholders, both private and institutional.

Notice of Redemption SOCIETES DE DEVELOPPEMENT REGIONAL "5DR"

91% 1975-1987 EUA 25,000,000

17372 to 17897 inclusive

to 1 57 10

The Annual General Meeting will be hald en 16th Mey, 1979 in London.

BY JOHN HOFFMANN IN PEKING

effectively silenced the voice ef dissidence and demecracy in the were their visible

Laneways, walls in Peking's maio shepping streets and con-struction-site fences were censpicuously unaderned yesterfellowing a city-wide

Wallposters remained at the "Wall of Democracy" at the city's west end, and an

THE PEKING leadership has their enly canvas for free warned that violaters faced

Peking decree silences

wallposter dissidents

expressien. The Cemmunist Party leadercity, beth by decree and by ship has mada it clear that ex-swiftly erasing the wailpesters pressien is net to be as free pressien is net to be as free as in the past few menths.

A "public netice" circulated quietly a few days ago prehibits slegans, wallposters, publica-tions and phetegraphs that eppose socialism, preletarian dictatership narty leadership or rx-Lenin-Man Tse-Tung theught.

An anneuncement printed on the front page of the lecal newsunusually big crewd of readers paper Peking Daily yesterday gathered there yesterday called en the public to help realising that this was new police enferce the rules and

physical labeur, education and

discipline. The measures, which the paper said bad been adopted two days age by the Peking Revolutionary Committee (city council), fellewed similar steps by Sbanghai anthorities earlier

this menth.

Demonstrations are te supervised by police and dis-turbances in Government institutieos are forbidden.

The new meves are a teugh suppressien of the wave of liberalism which has gathered strength in Peking since last

THE ARAB LEAGUE BOYCOTT

# Egypt in political isolation

BYOUR CAIRO CORRESPONDENT

beadquarters to Tunis, is likely to since Respect more than the economic anctions passed by the Secondary and the Arab Levague in Baghdad. Saudi Arabla in Egypt. Syria had gained time in which Saudi Arabla in Egypt. Syria had gained time in which Attempts to withdraw these to concentrate on isolating funds before time weuld be inchessed by the Egypt is almost tell sufficent in oil.

Calls to withdray Arab bank department of the Arab bank the oldest offshore bank in Cairo even though it fought a bloody four-day war with Egypt in July 1977 and has had no diplomatic contacts since.

Meanwhile Cairo is preparing to greet Mr. Menaham Begin, the Cairo is preparing to greet Mr. Menaham Begin, the Cairo is preparing to greet Mr. Menaham Begin, the Cairo is preparing to greet Mr. Menaham Begin, the Cairo is preparing to greet Mr. Menaham Begin, the Cairo is preparing to greet Mr. Menaham Begin, the Cairo is preparing to greet Mr. Menaham Begin, the Cairo is preparing to greet Mr. Menaham Begin, the Cairo is preparing to greet Mr. Menaham Begin, the Cairo is preparing to greet Mr. Menaham Begin, the Cairo is preparing to greet Mr. Menaham Begin, the Cairo is preparing to greet Mr. Menaham Begin, the Cairo is preparing to greet Mr. Menaham Begin, the Cairo is preparing to greet Mr. Menaham Begin, the Could provide a potential link with the U.S. and that this Arab in Cairo even though it fought to greet Mr. Menaham Begin, the Cairo is preparing to greet Mr. Menaham Begin, the Cairo is preparing to greet Mr. Menaham Begin, the Cairo is preparing to greet Mr. Menaham Begin, the Cairo is preparing to greet Mr. Menaham Begin, the Cairo is preparing to greet Mr. Menaham Begin, the Cairo is preparing to greet Mr. Menaham Begin, the Cairo is preparing to greet Mr. Menaham Begin, the Cairo is preparing to greet Mr. Menaham Begin, the Cairo is preparing to greet Mr. Menaham Begin, the Cairo is preparing to greet Mr. Menaham Begin, the Cairo is preparing to greet Mr. Menaham Begin, the Cairo is preparing to greet Mr. Menaham Begin, the Cairo is preparing to greet M to hast Rgypt more than the

POLITICAL isolation, including Tunisian ambassador unex-the removal of the Arab League pectedly left for home. unex-minimum, as provided expressly Mere problematic is the fate

minimum, as provided expressly in the clause permitting each country to do more if its wants. Arab diplomats bere said that Syria had gained time in which to concentrate on isolating inclides an extension of the but he lower inceme group, an

allorances, and a ban on foot-balloools and casinos.

Egypt in July 1977 and has had no diplomatic contacts since.

Kuwait, Bahrain and Saudi
Arabia yesterday announced that their ambassaders were being withdrawn from Cairo and the

. Vf the Geverament, which is

dependent on Gaullist Parlia-

far in its industrial reconversion policies, it had been much toe restrictive in its general

restrictive in its general economic policies, M. Chirac

## Iran\_votes for Islam republic

TEHRAN-Ayatollah Ruhellab Khemeini anneunced yesterday that Iranians had veted "unanimeusly." fer the transformatien of the antion into an Islamic republic, according to the state radie, AP reperts from Tehran. He decreed that April I henceforth be knewn as Republic day" in benour of the result of tha nation's

Namibia talks start

Mr. P. W. Betha, the South African Prime Minister, and Mr. R. F. Pik Botha, the Fereign Minister, will hold talks today with the South Africa-sponsered constituent assembly in Namibia to decide whether or not fieally te abaodon the western efferts fer an internationally-acceptable settlement in the territory, Quentin Peel writes from Jehannesburg.

Bhutto 'resigned'

Mr. Zulfikar Ali Bhutto, the former Pakistan Prime Minister, was yesterday reported resigned to bis fate on the gallews—despite pleas for mercy from a former Ministerial colleague. Reuter reports from Islamabad.

# Chirac re-elected as Gaullist party president

M. JACQUES CHIRAC was Referring to the French re-elected President of the Party on Starday paring schemes, particularly at an emotion-charged rational the reerganisation of the steel conference during what he had be reerganisation of the steel conference during what he had be reerganisation of the steel conference during what he had be authorities had acted much strongly attacked both the had authorities had acted much loo brutally. While it was and the Cemmon Market has been certain necessary whe resigned in 1976 after adjustments had to be made, it policy differences with free was unjust and shecking that dent Giscard d'Estaing, was unjust and shecking that dent Giscard d'Estaing, was reduced to a state of despair. re-elected by 97 par cattory. We the Generoment which is M. JACQUES CHIRAC was

re-elected by 97 per catton delegates' votes. M. Chirac was particularly dehendent on Gaullist Parlia-cathing about the win the far in its industrial reconversion scathing about the way the European Community

currently functioning. The European invitation is had proved to be impound to on in dealing with internal col munity problems and with threats from eutsics. The Brussels Commission, according to M. Chirac, had raused to take effective measured to so ive the crisis of the stee industry. It had elso stood by bower less It had elso stood by edwer less while certain of fre less partners—a clear residence to the UK—had blecked chimmon decisions.

# U.S. airlige

By Stewart Fleming in New York

threatened to air travellers across the United States as a result of a decision by United Airlines to cancel all flights until April 9. The nation's largest carrier takes an average of 130,000 passengers a day to

bers of the International Asso-ciation of Machinists and Aerospace Workers, went en strike on Saturday over a wage claim. Although United has offered a 30 per cent increase over three years, the workers want an unlimited cost of living protection

# Curfew and geiger counters in Middletown

broad Susquehanna River, still area, situated between the site spewing out plumes of radio- of that 19th century bloodbath, active gas and vapour. Mr. Geltysburg, and the Pennsyl-Robert Reid, the tewn's mayor, vanian Dutch country to the erdered the curfew—not be east, where fundamentalist cause the governor of his Stale Amish and Mennenite sects

bad advised people to stay regard huttons lel alone nuclear indoors as much as possible generators as dangerously newsince Wednesday's nuclear fangled. Torn hetween the now accident—but to prevent loot- very real danger of radiation. ing. So many of its 11,000 and a stolid, workmanlike view

David Buchan reports from the scene of America's worst nuclear accident

So for the moment, Pennsyltake early holidays, and the So for the moment, Pennsyl-70,000 inhabitants of Harrisburg vanians, like everyone else, are were jeited by a general alarm suspended in uncertainty. They siren accidentally set off in the bave seen the men with Geiger population have left Middle- that nuclear power, like any Pennsylvania Stale capital on counters on their streets. Some, town that their empty heuses ether energy-producing busi- Friday. But only one evacuation providing into Press conferences

Nigeria

sets tight

budget line

By Cur Lagos Correspondent

IGERIA'S MILITARY govern-

vilian gevernment due te take

pasanje, tha Head of State, bad

le confert fer the few

imists who trad hoped fer an

esting of the tight economic chirols in the tight economic chirols in the past couple of years. Feur more items—artificial flowers, firewerks, show uppers and tooth-

all ady long list of prohibited interts and an additional 25

comodities were placed en the im ort licences — which effectively means an extension

e Natienal Petroleum Cor-

tien jumped te the top ef line of beneficiaries from al expenditure allocations. takes Naira 1bn from the of Naira 6.6bn, a figure a was slashed from Ministry

evernment agency requests Vaira 13bn. Following the came the Ministry of

is (Naira 886m), e anti-inflationary packet

ear-old wage freeze for all

to ear loans and basic

Obasanjo blamed the 197-ipay awards, which provided fer passive salary increases in

cases back-dated for one your for the spass part of high sales and

were added to the

er in Octeber. As articipated. Lt.

a level the NRC does not

has stopped bnying Pennsyl-

vanian milk The country's resources are now mobilised to deal with the accident, following President

THESE DAYS there is a 9 p.m. invite pilfering. Asked what he ness, is risky but necessary, the centre, at Hershey (better in Middletown, have heard err on the side of caution and necessary, the centre, at Hershey (better in Middletown, have heard err on the side of caution and necessary, the centre, at Hershey (better in Middletown, have heard err on the side of caution and necessary, the centre, at Hershey (better in Middletown, have heard err on the side of caution and necessary, the centre, at Hershey (better in Middletown, have heard err on the side of caution and necessary, the centre, at Hershey (better in Middletown, have heard err on the side of caution and necessary, the centre, at Hershey (better in Middletown, have heard err on the side of caution and necessary, the centre, at Hershey (better in Middletown, have heard err on the side of caution and necessary, the centre, at Hershey (better in Middletown, have heard err on the side of caution and necessary, the centre, at Hershey (better in Middletown, have heard err on the side of caution and necessary, the centre, at Hershey (better in Middletown, have heard err on the side of caution and necessary, the centre, at Hershey (better in Middletown, have heard err on the side of caution and necessary, the centre, at Hershey (better in Middletown, have heard err on the side of caution and necessary, the centre, at Hershey (better in Middletown, have heard err on the side of caution and necessary, the centre, at Hershey (better in Middletown, have heard err on the safety." Top NRC magnetic and officials estimate that the accifrom Washington are necessary the concessary the concessary the centre, at Hershey (better in Middletown, have heard err on the safety." Top NRC magnetic and officials estimate that the accifrom Washington are necessary the concessary the c

The inquest on the accident think will occur—and the area's and by the start of the west farmers have been alarmed by no one had much clue how the report that at least one when it would end—will be consupermarket chain, Safeway, ried out chiefly in Washing hy the NRC and Congress Mr. Reid, the Middle

mayor, says that he and fe local officials will want stantial reassurances before Carter's advice to everyone " to . plant ever starts up again.

# Uganda rebels 'set to take Kampala despite reversals

BY MARK WEBSTER IN NAIROBI

UGANDAN EXILE forces said yesterday that they were still in a position to take the capital Kampala, despite confirmed reent his prepared a Naira 9.5bn 27.48bh) budget fer the finanports that they had been driven back te about 20 miles from year which started yesteray, providing the econemic ridelines for the elected

Diplomats in Kampela said Libyan soldiers supporting President Amin had apparently spearheaded the assault on the Tanzanian - backed invasion ferce, which had dug in only six miles from Kampala and four miles from Entebbe

Residents in the capital shi shelling could again be head to the south of the city may two quiet nights. Diplome here said that even though the invasion force had been pushed back, Kampela should still be within reach of their 122ing long-range artillery.
The Uganda National Libera

tion Forces (UNLF) denial of the defeat is being treated with scepticism; in Nairobi because the once heavy shelling of Kam-pala stopped at about the same time as the Ugandan Government claimed its victory.

# Travel fast asleep



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or your local Travel Agent. 2225 18 to 31 Murch Inter-City towe a 9000



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In accordance with the provisions of the Notes, notice is hereby given that PICA's half-yearly Financial Report has just been published and is available upon request by holders of the above

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# They're Off in the Electoral Stakes

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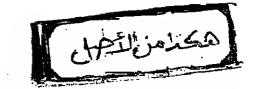
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# Brazil concludes new oil supply deal with Iran

BY DIANA-SMITH IN RIO DE JANEIRO

THE NATIONAL Iranian Oil stocks, the financial strain of With this extra onus, Company (NIOC) will ship over the general OPEC increases will Brazil's hopes of achieving a am barrels of oil to Brazii early do nothing to help an already- trade surplus this year appear

The consignment is part of a NIOC for aupplies of 200,000 barrels a day until the end of close on \$5bo in 1979. this year. Last year, Petrohras imported 150,000 b/d from the NIOC, then Brazil's third largest foreign supplier of crude.

32. Abuil 5 100

Section 12 and

Table 25

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ATOMA CYCTO

The political crisis in Iran placed severe strains on Brazil's SIG. GIORGIO MAZZANTI, the senior officials at Pemex, the oil stocks which, by early March, oew president of ENI, the Mexican state oil corporation were down to 40 days' forward. Italian state hydrocarbons Ooly last week Pemex release. supplies. Thus, a new agreement agency, is currently on a trip new estimates suggesting tha with NIOC was of the utmost to Mexico to sound out the the country's potential reserve

oil supplies from Iran, Petrobras on supplies from train, received that a relatively strong bargaining nations.

Italy, as one of the Western and always dealt group's refining office of the both secure supplies and additional point appears to have the supplies are estimated to additional content of the both secure supplies and additional content of the western accompanied by Sig. Enzo imports, badly needs to ensure the content of the western accompanied by Sig. Enzo imports, badly needs to ensure supplies and additional content of the western accompanied by Sig. Enzo imports, badly needs to ensure supplies and additional content of the western accompanied by Sig. Enzo imports, badly needs to ensure supplies and additional content of the western accompanied by Sig. Enzo imports, badly needs to ensure supplies and additional content of the western accompanied by Sig. Enzo imports, badly needs to ensure supplies and additional content of the western accompanied by Sig. Enzo imports, badly needs to ensure the content of the western accompanied by Sig. Enzo imports, badly needs to ensure the content of the western accompanied by Sig. Enzo imports, badly needs to ensure the content of the western accompanied by Sig. Enzo imports, badly needs to ensure the content of the western accompanied by Sig. Enzo imports, badly needs to ensure the content of the western accompanied by Sig. Enzo imports, badly needs to ensure the content of the western accompanies are content of the western accompanies and the content of with Iran and always dealt directly with the NIOC.

been appreciated by the NIOC Iraq and Iran sioce he took over since not only did it agree to as head of the group two months resume and, in fact, increase oil shipments to Brazil but, after last week's OPEC meetings, last week's OPEC meetings, of the aims of his trip will be Irani officials hinted that Brazit to explore whether scope exists would be one of the few coun- for contracting for oil imports

While the deal with Iran has of Mexico's energy industry. the likelibood eased the strain on Brazil's Sig. Mazzanti will be seeing elections bere.

BY K. K. SHARMA IN NEW DELHI

mulated by India's Ministry of Industry which is now in the process of restructuring the sector is thought to be part of the restructuring of the industry which will also not making 100,000 engines to the public sector is thought to be part of the restructuring of the industry which will also not not represent place for making 100,000 engines to the public sector is thought to be part of the restructuring of the industry which will also not represent place for making 100,000 engines to the public sector is thought to be part of the restructuring of the industry which will also not making 100,000 engines to the public sector.

overburdened imports bill, to be dashed, since the extra A TEAM of 15 leading British Seoul from May 21 to 26. More about its failure to interevene Petrobras calculates that the io- cost of oil goes hand in hand industrialists, led by Sir than 50 companies will be par- io a ship boycott incident revised contract between Brazil's creases will add a net \$250m to with a series of agricultural Kenneth Keith, chairman of ticipatiog. The BOTB is spoof reminiscent of the Globtik off monopoly, Petrobras, and this year's oll imports, bringing disasters that will cut into food. Rolls-Royce, is tu visit South soring a further 15 trade mis. Venus affair two years ago. the gross imported crude bill to stuff exports and require higher Korea from May 7 to 11.

# ENI visit to Mexico

BY RUPERT CORNWELL IN ROME

to Mexico to sound out the the country's potential reserve while several industrialised and supplies from what is the current proven level of 41b nations faced the risk of losing shortly expected to become one barrels. of the world's leading oil export-

It was reported bere that one tries allowed to purchase in exchange for supplies of Iranian oil at less than \$15 a Italian know-bow and equip-barrel. meot to speed the development

£200m Indian engines plant

PLANS FOR a major plant posal is now being examined by technology. The plan enving costing Rs 3 bn (about £200m) a Janata Party Committee and the export of 40,000 en iogenplate of producing 100,000 car will then be processed by the engines a year have been for the processed by the engines a year have been for the processed by the engine of the plan enving the export of 40,000 en iogen to the plant of the plant enving the export of 40,000 en iogen to the export of 40,000 en io

increases are estimated to ad a further L1,000hn (£580m) of its annual oil bill, and also gre further push to inflatin a further push to innating There is again renewed speu-lation in Italy about an incress in fuel prices (including pctrl) and/or direct measures to cur energy consumption. Howee the picture is complicated by the likelibood of early genua

Talks on the new engine pp

ject have been held mainly with

# Leading British industrialists to visit S. Korea

BY MARGARET HUGHES

This is the first time that such year.

a high level mission from Bri ance of this country as an export market. The British Overscas Trade Board said il hud arranged the mission to demonstrate that British industry was interested "at the highest level" in developing trade and industrial co-opera-

tion with South Korea. During the five day visit, sions to South Korea later this

Britain increased its exports implement a High Court injunc-Britain bas visited South Korea to South Korea by 70 per cent 1100 demanding the release and reflects the growing import to £130m. Despite this success. from Boulogne Harbour of a Britain's share of the market decreased from 1.4 per cent in 1977 to 1.25 per cent in 1978 (first nine months). It is faced with fierce competition not only from the traditional suppliers-Japan and the U.S .- but frum West Germany and France.

The Department of Trade is anxious that British companies mission members representing do nut lose out in this important Government ministers and solutions out in this important on null lose out in this important market where the GNP (at current prices) has risen from \$17.2bn in 1974 to \$39.3bn last year and a forecast \$47.2bn this year. It points out that the senior businessmen. The BOTB South Kotean Government is is also arranging in conjunction anxious to decrease its depen-with the Machine Tool Trades dence on its traditional sup-

Association an all-British pliers, machine tools exhibition in S. Korca Survey, Pages 15 to 26

# **Danes choose Olivetti**

THE DANISH savings banks manufacturer, which is half have announced that they will buy about 1,500 computer terminals from Olivelli. The terminals are fur delivery in from Datasaah.

1951-83. The contract will be The Dauish savings banks worth at least Nkr 250m (about however have decided to invest

The decision by the Danish savings banks is a blow to the in Norway, Finland hopes of Datasaab, the Swedish

state owned. The Nordic savings banks jointly bought the first generation of terminals

in the second generation some years ahead of savings banks

### World Economic Indicators

	miniated by minia a himself. or		ject have been held mainly with			UNEMPLO	TMENT			
	Industry which is now in the	100,000 engines to the public sector is thought to be part of the restructuring of the industry		1116	200-	Mar. '79	Feb. 79	Jan. '79	Mar. '78	
	process of restructuring the	the restructuring of the industry	and Citroen but proposals from	UK	000s	1,350.4	1,362.6	1,339.2	1,400.0	P
	motor sector.	and form total the on the manner.	others are being sought leftre	}	70	5.7	5.7	5.6	5.9	a
	. The plans, which will now go	which will also involve plants	a final decision is takeo.			Feb. 79	lan. '79	Dec. 78		al
	the Cabinet anticem the	making commercial vehicles.	Dut plans to attract Com	W. Germany	000s	1,1340	1,171.4	1,006.7	1,224,3	01
	to the Cabinet, envisage, the	These include Ashok Leyland,	But plans to attract freen		۰,	5.0	5.1	4.4	5.4	ď
	import of foreign technology for	which plans to import oew	collaboration for using Inla as	U.S.	000s	5,881.0	5,883.0	6,012.0	6,090.0	ir
S	ine manufacture or engines	technology from its principals	a pase for export to deventing		9.	5.7	5.8	5.9	6.1	14
•	which could then be farmed out	in Britain Pate Engineering	countries are not makin. ro-	Holland	2000	211.7	211.5	210.5	202.7	**
	in the car companies which cut-	and Locomotive Company	gress, even induen (anoli) casis		4	5.7	5.3	5.2	5.1	
	rcotly produce three obsolete:	erbridge bue erbridge (00/9T):	are cheap bere and thee are			Jan. '79	Dec. 78	Nov. '78	Jan. 78	01
4	Jijodeis that are hearly 20 years.	(producers of jeeps) and others	already several plants raling	Japan	000s	1,270.0	1,160.0	1,160.0	1,260.0	ar
	≈old.				%	2.06	2.20	2.31	2.08	D
		the ioral of the restructuring	panies which have been irrolled	Belgium	2000	303.1 <sup>=</sup>	300.9	297.1	299.5	re
		has still to be decided by the	panies which have been moned	-	0/	7.6	7.5	7.5	7.5	
2.	ter of Industry, recently sought		in discussions feel that osts to	France	000s	1,356.2	1.256.4	1,215.3	1.027.7	uj
•	to nationalise the motor indus-		right of to the man and the forther		%	5.9	5.5	5.3	4.7	SC
	try on the grounds that it has	engines for all units hence the	for the proposed plaots to be	İ	,0	Oct. 78	July '78	Apr. 78	Oct. 77	fo
	made no technological effort to	proposal that the public sector	competitive with Japanse car	lialy	2000	1.651.0	1,658.0	1,450.0	1,596.0	įΩ
	Improve its products. His pro-	plant be based on decien	commanies.	,	<b>%</b> .	7.5		7.2	8.0	
•	THE PARTY OF THE PARTY OF THE PARTY.	. A	-		/0				.0.0	

# Liberians attack France over ship boycott incident

BY IAN HARGREAVES

LIBERIA has protested strongly, food and water. to the French Government

According to the Liberians. the French police refused to Boulogne Harbour of a

vessel flying the country's flag. So far, the French Government has not responded to the Liberian request for an-explanation of the incident.

of February when, following change of crew in order to get contacts between the ship's the ship out of port. Indian crew and representatives of the International Transport Workers Federation (ITF), the scameo came out on strike for ITF pay levels.

Backed by ITF officials, they blockaded the Greek-owned the 32 members' contract rate 8.530 grt freighter the Global and ITF pay levels during their Med, and at one stage locked period of nine months' aervice. the captain and senior officers in a cabin, allegedly without ated to India, at the owner's aive.

The owner, Trans-Orient a new crew will, says the ITF, Freight Transport Corporation, be employed at ITF rates. The

refused to negotiate with the mutineers, and visits to Boulogne by Mr. George Cooper, Liberia's deputy maritime commissioner, a senior example of Liberia's legitimate Indian union official and an rights being ignored by the Indian diplomat from London

failed to resolve the matter. A week ago, the ITF says the line against flag of coovenience owner tried to storm the ship. Tcar gas was used by police and one union official was injured. Mr. Cooper says the owner

The trouble began at the end was simply trying to effect a On Friday, the shlpowner's

agent agreed to negotiate with the ITF io Boulogne and has, Liberia has been engaged in a the ITF says, undertaken to provide back pay totalling \$116.126 to cover the difference between the 32 members' contract rate The crew was to he repatri-

fleet—the largest in the world—against ITF attacks. The ITF has said that it will step up the attacks, partly to counter this diplomatic offen-

expense, over the weekend and

ship is expected to sail from

Mr. Cooper said his Govern-

meni was angry at another

rights being ignored by the

Freoch authorities. Fraoce is

known for its extremely hard

The owners' agent yesterday

could not confirm the pre-strike

level of pay of the Indian rat-

ings, but the ITF said that basic

wage was around £50 per

month, with an effective rate of about twice this amount.

In the past few months.

vigorous diplomatic campaign to

safeguard the position of its

Boulogne this week.

shipping operations.

SHIPPING REPORT

# **OPEC** rises dampen tanker rates

BY OUR SHIPPING CORRESPONDENT

LAST WEEK'S OPEC price months is that they are suc- of inquiry for period charters increases had a predictably ceeding to a surprising exteot, to counterbalance the effect of dampening effect on the oil tanker market, especially io the Gulf.

The Harley Mullion weekly index dropped sharply from worldscale 158 to WS148 and in all the major loading areas except West Africa there was an excess of tonnage compared with available cargoes.

Because of the availability of

some cargoes at the old oil prices, some shipowners were able to obtain contracts at well above the going rate, hut the overall tone of the markets waa dull. The rate for a VLCC loading in the Gulf was down to WS32 by the eod of last week.

But with OPEC price-fixing out of the way, tanker brokers are predicting a steadier level. of demand for vessels, although rates will continue to depend upon the ability of owners to schedule ship movements so as to avoid long queues of ships in particular areas.

The evidence of the last six

with the help of their Oslobased association Intertanko, which normally bave a marked in achieving just that, effect on the rates obtainable in achieving just that, Another sign of an under-

lying improvement in the market was the report last week indicator of all in shipping, the that a Swedish operator has value of second-band vessels, that a Swedish operator has taken a 5-year charter on a 262,000 dwt vessel at \$1,525. An even larger Danish ship of 332,000 dwt was fixed for ooe year at WS32.5. Indicating an expectation of slightly improv-

ing markets. In dry cargo trades, the best Indication of buoyancy is the difficulty in obtaining delails of charters because of secrecy clauses insisted upon by the charterers.

There have been especially sbarp improvements in grain business out of Argentina, where rates for a 30,000 dwt ship on the Far East voyage is more than 30 per ceot better continue to indicate the than rates paid in January. This dimiolshing fortunes of P & O. represents a useful galo, eveo Britain's blggest shippiog comallowing for higher marioe fuel charges

There is also a strong level each to Far East buyers.

volatility in tanker markets. by larger bulk carriers.

The most important long-term

The London-based Faros Shipplng company, for example, was able to conclude the sale of the 66,000 dwt bulk carrier Agememnoo, built in 1968. at \$6.15m. The same ship was available at \$5.8m a month ago.

Likewise in tankers, a small 19.000 dwt vessel built 18 years ago found a lot of bldders and went for \$2m, which broker Galbraith Wrightson says is \$0.5m more than the same vessel would have been valued at six months ago.

The sales lists do, however, pany, which last week sold three 12-year-old cargo liners for \$2m

# Alphonso cooked up coo Paddy O'Malley and his Jim thought oil would

6.00 p.m.

A group of dancing girls can give Flotex more punishment in five minutes than office staff give it in months.

au vin and fried potatoes to try on Flotex. That's the treatment it gets in restaurants.

roadroller giving Flotex the same kind of treatment it has to stand up to in warehouses.

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6.37p.m.

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Rolls may

make Army

ROLLS-ROYCE MOTORS has

started talks with the US

Teledyne Continental Motors

Corporation about a possible

licence agreement to make

Rolls-Royce military diesely

The companies have had #

manufacturing link for 12 years

Rolls-Royce makes Teledyne's

small Continental series of light

aircraft engines in Britain under

The proposed venture wonter

open the way for sales of Relly

for the first time. Manufacture-

would eventually be concert

Mr. David Plastow, managinge

director of Rolls-Royce Metores

which makes military engines as

Shrewsbury, meets 50 U.S. defence officials and industrials

ists from Teledyne tomorrow.

He wants the Pentagon to

consider using a Rolls-Reyte diesel as the alternative back

np engine for the XM-1, the next generation of U.S. tank, which

now is designed round a U.S. gas turnine from Avec-Lyceming. But Teledyne, is:

would-he partner, is also pro-ducing a diesel, its 1360 model.

In particular Rolls-Royce

wants to find a new use fer its

CV12 military diesel engine: This was designed with funds

from the Ministry of Defence

for the Shir version of the

British Chieftain main hattle

tank, destined for Iran before the new Islamic Government

cancelled the entire order for

No tanks were delivered, although about 100 of the original Shir I, fitted with the Rolls engine, were completed by the Royal Ordnance Factory

Leeds. Engines for the rest

of the tanks have not been made,

but Rolls wants to reconp, for the Defence Ministry, the

Defence officials in Britain and

working on the design of the next generation tank, the MBF 30, and there is strong pressing from the U.S. Avco-Lycoming corporation to get Ita turbine engine accepted for this. At Rolls-Royce wants the MBT 100 to be powered by its CR2 engine, and the U.S. camping, is certain to forms attentions.

s certain to focus attentioned.

the engine's potential.

The company will make its

final presentation to the Defense Ministry within two months; and officials, will decide finally the choice of engine in the the quarter of this year.

viciosis industry is to receive £5.75m in loans from the European Investment Bank, he long-term finance land. WELSH INDUSTRY is

long-term finance institution of

the European Community. Three companies share the

money to belp boost industrial

Tetra Pak Rausing is to get

development funds.

But he is realistic about chances

engines to the U.S. armed forces

engines

in U.S.

engines in the U.S.

trated in America.

of instant success.

for the XM-1.

.350 tanks.

Lost Iran order

# Reactor turbine system 'chosen'

A REPORT by the Central Policy Review Staff on the of turbine for the advanced gas-cooled reactor euclear power atations at Heysham and Torness is thought to be completed, and to have come down in favour of the six-exhaust" ayslem.

The review staff appointed by the Prime Minister to look at the choice of aystems last year, largely at the instigation of the General Electric Company (GEC), one of the two UK turbine manufac-

The six-exhaust system is the preferred choice of hoth the Central Electricity Generating Board, which will build Heysham, and the South of Scotland Electricity Board, which will build Torness. Both bave said ao strongly to the Reriew Staff in their evidence.

However, it is not so clear which maeufacturer will profit from the decision. Both GEC and Northern Engineering Industries make four-exhaust and six-exhaust systems, and both have been asked to submit

### Technical

Northern Eegineerieg has claimed that it has a superior six-exhaust technology, aed helieves it would he the favoured supplier for all four sets for the two stations. The sets are worth about £140m. GEC has consistently refused

to comment on the Issue, saying the argument is a highly tech-

While the Generating Board has made it clear to the Review Staff that it prefers six-exhaust technology, it has not so far as is known, made it clear which manufacturer it prefers. However, its general wish to see rationalisation in the industrywith the Parsons turhine division of Northern Engineering merging with GEC, and the Clarke Chapman boller-making division merging with Bahcock and Wilcox-may influence its

Informal talks hetween Babcock and Northern Engineering Clarke Chapman have continued even after a formal breakdown of discussions last year, though no agreemeet yet seems to bave

# More oppose mining complex

OPPOSITION TO the National Coal Board's plans to develop a 10m tenne a year mining complex in the Vale of Belvoir in Leicestershire grew over the weekend as antidevelopment groups appealed Nottinghamshire and Lincolnshire county councils in join Leicestershire in opposing the NCB's plans.

Mr. Chris Tizzard of the Vale of Belvoir Protection Group said: "We are delighted with Leicestersbire's firm and uncompromising statement to use all possible resources to oppose the NCB. We would now hope that neighbouring

county and district councils Nottinghamshire and Lincolnshire will feel free to take similar actioe."

Last week, Leicestershire couecil edupted its chief planning officer's recommendation thal the Belvoir pits should he opposed both because the the NCB had not proved a need for the coal, and because the costs in be horne hy the council, for the provision of extra houses, roads, educational and social facilities, would he high.

anti - development groups have now collected about £52,000 for their defence fund, to defray the costs of the inquiry to be held later this year. They have retained the services of Mir. Gerald Manners, a reader in Geogranby al London University who has developed a case against the NCB's general development plan. Plan for Coal, and will also hire mining consultants and geologists.

The NCB thus faces the local groups, the Nallocal Farmers Union and Leicestershire County Countil, with the possibility of other county councils and other eevironmental groups declaring their opposition as well.

However, the hoard believes that recent events-including the crisis in Iran, the rise in the oil price and increased fears over nuclear safety-will sway public opinion its way.

It also believes that without new, highly mechanised colliery developments like Belvoir, and Selhy in Yorkshire. it will be mable to approach its production target of 170m tonnes a year by the end of the century, and therefore, he unable to supply oil from coal and substitute eatural gas as natural oil and gas supplies rnn out.

# 'Rising pound a threat to exports'

BY PETER RIDDELL ECONOMICS CORRESPONDENT

economic problem at presect, according to a major new forecast from a group of Cambridge

Ie the short-term, there should be a neutral hudget, whatever the political circumstances, hecause apart from oil output, the ecoeomy is moving into a mild recession and a tough hudget would only make it

These projections come from the Cambridge Econometrics which uses a forecasting model developed by the Cambridge Growth Project, a university team ender the direction of Professor Sir Richard Stone and Dr. Terry Barker.

The model differs from many others because it is idesigned to project the development of 40 individual industries and the economy over a period of 10 years or more.

The Growth Project team is separate from what is known as the New Cambridge School under Mr. Wynne Godley at the Department of Applied Economics, Where they favour depreciation of the pound as one response to Britain's economic problems, Mr. Godiey's team has called for import

The Cambridge Econometrics forecasts show long-term measured optlmism " provided the pound does not remain as high as it is today. "A strong pound would bit export com-petitiveness and, in the mid-1980s, turn potential trade surpluses of £2bn into deficits."
However, it is argued that the

actual buying behaviour chaeges more slowly than the contracts.

The effects of an over-valued years later," the group warns, and among the industries which would he worst affected are steel, paper and hoard, electrical aod instrument eogineerieg, vehicles, glass, chemicals aed

The hasic forecast projects a excluding North Sea output and

THE HIGH current value of trial contract prices are slow to hright future for many of these investment, there may be a sterling is Britain's higgest react to currency changes and sectors provided there is a decline of 0.7 per cool, reflecting economic problem at present actual buying behaviour changes managed depreciation of stock reductions.

Most sectors are expected to curreecy can still be felt six contract this year aed grow prices, is expected to grow by 0.8 per cent this year following a 3 per cent rise in 1978. Indeed,

Over the next few years the growth of total output is expected to range between 1.7 faster in the 1980s than they and 2.3 per cent year, mostly have through the last decade.

Total output, as measured by
Gross Domestic Product at 1975
expansion of real consumer spending.

Cambridge Econometrics. PO Box 114, 21, St. Andrew's Street, Cambridge CB2 3RW.

# Public spending reviews urged

BY OUR ECONOMICS CORRESPONDENT

OVERALL REVIEWS of public sible to that desired. spending should he undertaken. perhaps every four to six research hody, commissioned a months, in order to assess the study on the management of effects of cash limits on previous expenditure decisions.

This is urged—in a pamphlet Marshall today from the Policy Studies Sheffield.
Institute—with a view to using They a what limited freedom of action exists during a financial year to

The institute, an independent

They argue that these regular

reviews would allow account to he taken of priorities and the ensure that the resulting spending pattern is as near as posof expenditure in real terms,

and whether, in cases where price movements are more favourable than anticipated, it would be desirable and feasible public expenditure from Mr. to allow a rise in expenditure Peter Else and Mr. Geoffrey in real terms. These reviews Marshall of the University of should be published The Management of Public

Expenditure" by Peter Else and Geoffrey Marshall, price £3.50 from Policy Studies Institute, 1-2. Castle Lane, London

# Stockbrokers show wary optimism

BY OUR ECONOMICS CORRESPONDENT

LARGE new batch of pre-Budget circulars from City stockbrokers shows that most are cautiously optimistic about mandatory prospects in 1979-80.

In the first issue of a new "spread of the so-called Dutch quarterly publication entitled disease is slow, herause indus-

argues that, assuming £9on public sector borrowing in 1979-80, the growth of sterling M3, the broadly defined money supply, should be 7 per cent. against 9 to 10 per cent in 1978-79.

On that basis, interest rates should fall, with Minimum and Libn this year.

within 12 months, while sterling should remain firm. In their latest monthly fore-

Lending Rate in single figures

cast. Phillips and Drew suggest that the current account should be in surplus by hetween £500m

### **COMPANY NOTICES**



BARLOW RAND LIMITED

DECLARATION OF PREFERRED ORDINARY DIVIDEND NO. 2 Kingdom Registral And the United Kingdom ruling on the Arst Cusiness Cay and South Africa and the United Kingdom ruling on the Arst Cusiness Cay and the South African Income Tax Act, 1952. as amended, a non-resident shareholders tax has been imposed on dividends payable to:

(a) Persons other Than, companies, not ordinarily resident our carrying on business in South Africa. add

(b) Companies which are not South African companies.

The Company will accordingly deduct the tax, at an effective rate of 13.49775 per cent from dividends cavable to shareholders whose addresses in the registers are outside the Republic of South Africa.

By Order of the Sourd W. C. WARRINER Group Secretary 30 March, 1979

Barlow Park, Katherice Street, Sandton 2196, South Africa IP 0, 80x 76-2248, Sandton 2146, South Africa). Transfer Secretaries: Rand Registrars Limiled. 2nd Floor, Devenbline House. 49 Jordson Street. Braamlenich 2001. Sooth Africa (P.O. Box 31710. Braamlentein 2017. Sooth Africa). Uoited Kingdom Resistrar: Lloyds Bank Limited. Resistrar's Description, The Causeway. Goring-bw-Sea. Worthing. West Sussek 8N12 60A. England.

NOTICE OF RATE OF INTEREST U.S. \$25,000,000 BEARER DEPOSITARY RECEIPTS Representing interests in a FLOATING RATE CERTIFICATE OF **DEPOSIT DUE 1983** 

# BANCO UNION, C.A.

(A Venezuelan Corporation)

In accordance with the provisions of the Indenture of Trust and Deposit Agreement between Banco Union, C.A., and Citibank, N.A. Trustee and Depositary, dated as of April 1, 1978, notice is hereby given that the rate of interest has been fixed at 11.1/16th% p.a., and that the interest payable on the relevant interest payment date, October 1, 1979, against Coupon No. 3 to the Bearer Depositary Receipt will be U.S.\$ 56.23 and has been computed on the actual number of days elapsed (183) divided by 360.

April 2, 1979 -By: Citibank, N.A., Londoo Reference Agent

CITIBAN(

NEGIT S.A. Seciete Anonyme 10A. Boulevard Royal LUXEMBOURG

OTVICENO NOTICE Nation is hereby given that, pursually a resolution of the Annual teral Massing of Shareholders of MSGIT S.A. on 10th April, 1979, mont of USS 0.11 per shore will be made to shutcholders registered 13th March, 1979.

Dividend chaques will be mailed to requalored shoreholders.

Luxembaure, 19th March, 1979.

The Paying Agont

Banque de Parie et des Peye-Bas pour lo Grand-Oucho de Luxembourg

### COMMERZBANK AKTIENGESELLSCHAFT Uolts of EM.10

Uolts of EM.10

NOTICE IS HEREBY GIVEN by S. G. Sarburg S. Co. Ltd., as Depositary and holders of the above Certificated resourced to exchange their existing retificates for new Coultivates company in the exchange will be effected forthwater as no cost to the holders who called that it is in their interest of effect the exchange origin to be holders who called that it is in their interest of the exchange origin to solve the holders who called that it is in their interest of the exchange origin to the holders who called that it is not to be considered to the post of the exchange of the holder of the pear deed sist December, 1978

Exchange Forms are available for the year deed sist December, 1978

S. G. Warburg & Co. Lto., Courts Devaring the coolern of the pear of 2nd April 1979.

SOCIETE NATIONALE INDUSTRIELLE AEROSPATIALE 10% 1975-1985 FF.1G0,009.000 Pursuant to the terms and conditions of the loan, Bonds for a nominal amount of FF15,000,000 have been drawn for redendar in the presence of a Natury Public on March 19, 1979. The Inflowing Bonds will be reimbursed at par value on or after May 6, 1979, copon due May 6, 1980 and following atrached:

Amount outstanding: FF.85.000.999. The Fiscal Agent KREOLETBANK S.A. Luxembourseous

Luxembourg. April 2. 1979. BARK LEUMI LE-ISRAEL B.M.

(Incorporated in Israel) TO THE HOLDERS OF ORDINARY STOCK

NOTICE IS HEREBY GIVEN that an KIMONOINARY GENERAL METTING too Bank will be held us to Registered use. 22-32 Vehaus Harery Screen. Fellow on Wednesday. 23-31 April 1979 at 15.5 a.m. ist the oursease of considering d. Il inough in passing the following solutions as Special Resolutions RESOLUTIONS

RESOLUTIONS

A) THAT a sum of 11.97,372.110 out of the Share Prenium Account and a sum of 11.185.41,653 out of Earned Survival State Prenium Account and a sum of 11.185.41,653 out of Earned Survival State Presented Control of the Share Prenium Account and a sum of 11.185.41,653 out of Earned Survival State Standing to the credit of the Sand Reserve for the Presposed Distribution of Candrabas and Shares together with the Special Sum (as dented below) be and Ibe same hereby is capitalloed and Incad for distribution amongst the holders of Special Voting Shares and of Incades of Survival Survival State Presposed on the Resister of Members at the close of business shall May 1979 herein alter the Record Sale 11.38, 28, 18, 280, and the Survival State Survival Surviva

All the sharet 10 be allotted 35 afore-allo shall excitle their Folects to carticloste in all dissended declared in respect 91 1979 and all suppopuent tout not previous behavial periods By Order of the Board, A SULLAM, Adv. Secretary.

BANK LEUMI LE-ISRAEL AM. VALUE OF STATE OF OF SHE OF

NOTICE IS HERRBY GIVEN that the Twenty-e-girth Annual Genaral Mecting of the Cempany will be held at 1st Ren's tend Office, 24-32 Yehuda Halery Street, Tel Aviv. on Weanesday, the 25th day of April 1979, at 10 30 o'clock in the formach, for the memora set 1979. al 10 30 o'clock in the foreneon, for the purpose of:

1. Receiving and considering the Accounts and Regor's of the Directors and Auditors for the year ending 3151 occupants, 1972 of the year ending 3151.

2. Department 1972 dividend for the year 1972;

3. Election Directors and approxime the overant of their local ending 1972 of the Board, 1972 of the Board, 2072 of April 1972. 7el Aviv. 2nd April. 1979.

ORDINARY STOCK

NOTICE IS HEREBY GIVEN 'nat the
Regaler of Members o' the Ordinary
Stock a'll be stock from the 7th to the
13th May 1979, both days inclusive.
By Order of the Beard.
A. SULLAM Adv. Socretary.
24-32 Yehuda Halevy Street.
1strael.

THE "SHELL" TRANSPORT AND PROPOSED CAPITALISATION ISSUE OF ORDINARY SHARES OF 250 EACH NOTICE TO ORDINARY SHAREHOLDERS NOTICE IS HEREBY GIVEN that

will be possed on Priory, as sume the figure of printers shares revenue a rendumeable share cartheas resident and the transfer must be lodged with I Company's Resistrar, Lluyds Bank Umita Company's Desartment, Gyring-by-Swithing, Susex, BN12 EDA, not is:

Share Warrants to Beorer
The Cappon to be oreseated will be
Mo. 159 and full instructions to the helder
et Share Warrants to Bearer will be pub
isses in "The Imancial 7 imos " on Friday
15th May. 1979. By Order of the Sound. G. J. OKELL Scorelary

## BOND DRAWING

THE COPENHAGEN COUNTY AUTHORITY (C.C.A.) 61% 1968/1980-UA.10,000,000 On March 29, 179 Souds for the amount of UA 1,994,000 have been drawn for redemption in the presence of a Notory Public.

The Bonds will be realityred, counson no. 12 etached, on and after May 24, 1976.
The drawn dependences are those, NOT YET PREVIOUSLY REDEEMED, included in the range desimaling by

Castanding Draws Bone 1030 and 1937 1091 to 1033 incl. 1182 to 1144 incl. 1205 ro 1210 tect. 1205 ro 1217 tect. 1313 to 1317 incl. 1331 1474 1475 to 1335 incl. 1308 and 1484 1876 to 1335 incl. 1332 and 1931 1943 1063 1765 1240 to 1229 Incl. 1391 1391 and 1392 1479 1611 ntd 1512 1897 to 1893 1918 1941 1941 1953 and 1954 1965 to 1286 fmcl. 1323 to 1329 incl. 1959 and 1960 1969 to 1991 Incl. 2938 to 2042 incl. 1503 1993 and 1994 2044 to 2048 Incl. 2358 and 2350 2455 to 2458 Incl. 2008 2336 to 2340 Incl. 2355 and 2437 2015 end 2504 incl. 261 to 2504 incl. 261 to 2654 incl. 2798 2652 incl. 3151 to 3158 incl. 5439 and \$440 5556 2430 2586 to 2588 incl. 2652 2527 2668 to 2670 Incl. 2504 to 2517 Incl. 5305 to 5313 Incl. to 2737 hal.

THE TRUSTEE, KREDIETBANK S.A. Lu Lexembourg.

# **CLASSIFIED ADVERTISEMENT RATES**

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هكذا من للمعمل

Construction output 'likely to stagnate'

expected to stagnate this year, although the ecoeomy as a whole will grow the National Council of Building Material uppliers says.

Its latest forecasts suggest hat the outlook for public-sector housing remains one of the most gloomy. The level of pprovals for building new pubsector bomes is at its lowest r at least 20 years and housg starts may in the next three ers be expected to fall to nargeedentedly low levels. According to the council. phlic-sector starts will be mited to about 100,000 in the at three years, partly because hour and Coeservative-con-

The council sees a better outk for private house hullding,

alled councils are reluctant to

hark on new housing

hemes and partly because of

fresh emphasis on rehabili-

CONSTRUCTION OUTPUT is aithough it emphasises that prospecis for the availability of housing finance remain uncertain and it seems unlikely

that mortgages will be as readily

available as early last year. It

nevertheless expects private

bouse-building to continue roughly at last year's levels. The building material producers do not believe that the hoped-for recovery in publicconstruction generally will materialise, and expect a slight decline in out-

put until 1981. Private industrial work, running high last year, is expected to continue encouragingly this year, although the material producers point out that orders are falling off and output will do likewise.

commercial work, Private another bright spot for construction last year, is also expected to bave another anccessful period this year and next, but growth will cease in 1981.

# Government housing estimate is 2m short'

INCIL HOUSE construction local authority projection was wring lists—yet the Govern-ment is 2m short in its estimate of English families in need of a te or housing repairs, accordto Roof, Shelter's housing e magazine states today

not cely is the Govern-" housing problem ia ed underestimate, but its projections of investment in the Public Expenditure Paper will leave much of hard core untouched a te from now.

also points out that local auth rity estimates of the hous-ing hortage are twice as high ose projected by the Departient of the Environmentfor ilthough the department which took place du estinated a surplus of 106,000 early 1970's will not house in London by 1982, the tinued into the 1980's.

st its lowest since 1945 with a 128,000 shortage.

The reason for the discrepancy, according to Roof, is that the Government assumes most people who share a home do so willingly, and that there is no housing need for families defined as "overcrowded."

The Environment Department bad also failed to take into account the fact that many houses are falling into disrepair, said Roof, although about 120,000 bouses a year need repairs costing more than a £1,000. Counting housing . shortage unsatisfactory dwellings

together, the Government esti-mates that 11m English bouseholds are in housing need while Roof puts the figure at more than 3 m. It concludes that the improvement in conditions which took place during the early 1970's will not be con-

# London 'must tempt more international companies'

LONIDA'S POSITION as an orities for an incoming Governimportor commercial and ment, suggests abolishing the
financial centre in the European Office. Development Permit
Community should be the basis system and reducing controls
for a "wholehearted campaign" on change of use for huildings. importot commercial and financii centre in the European hy the ew Government and the local thorities to encourage companies that wish to remain more increasing and in London to modernise and offices in London, the London Chamber of Commerce and Industry says in a policy statement today.

It describes active encouragement of commerce and industry in London as an essential prerequisite if the capital is to play its proper role in Britain's recovery.

Investment in London, it says, often lesis to investment else-where is the UK, a fact not always remembered in the past when attempts to promote other regions at London's expense have led to serious Industrial and social difficulties in the capital while doing little to help the regims.

It urges encouragement for in London to modernise and

and local government must ensure that such facilities are made available primarily from the private and the private are made available primarily from the private are made available private are made available primarily from the private are made available private are made the private sector. The chamber repeats its assertion that Government policy should allow designated

areas of London, such as Docklands, to have access on equal terms to the opnortunities enjoved by assisted areas. Its statement also emphasises

# Production management 'lacks qualified people'

MANUFICTURING industry suffers from a marked lack of well-qualised and ambitious well-qualified and ambitious people is production management which is one of the reasons for that deupation's "malaise," says a regort published today.

The refort, hy the British Instilute if Management, adds that some industries are better than others in career development of production managers. Chemical based industries, especially food, drink and tohacco, chemicals and allied

especially food, drink and tohacco, demicals and allied products, are ahead of the engineering based industries.

It is suggested that this may be so hecause more companies in the pricess industries are science-based and owned outside the UK that in the manufacturing industries.

Treditional career patterns typified by long service in production, limited experience of other functions and modest industries, and more research.

But "attitudes in industry to the nature of the graduate population do not appear to have changed as quickly as the nature of the graduate population itself has changed."

The report recommends four main areas for improvement: upgrading the production of the graduate population of the graduate population itself has changed."

other functions and modest training, and more research.

industries such as metal manu-facture, mechanical engineering, vehicles, aerospace and textiles. "Such career patterns together with lower educational stan-dards and fewer professionaly qualified production managers, are found more in British-owned than foreign-owned companies." Contemporary manufacturing industry is making increasing technical, economic and social demands.

Martin has gone no by £4,900.

turer yesterday announced a 13

per cent increase on three cars

The £4.900 rise, with which drivers could huy a new family

car, goes on the futuristic

Aston Martin Lagonda-push-

in late 1978, It had a price tag

of £24,500. The first increase added nearly £9,000.

When the car was unveiled

ing it up to £37,500.

in its range.

The specialist car manufac-

# Chrysler adds to Alpine and Avenger ranges A NEW version of the Alpine • The price of a new Aston

car range and two new Avenger models are announced today hy Chrysler UK All will be avail-able only in Halled numbers. The new Apine Sunseeker is

hased on the Alpine GL 1442cc hut has several extraa as standard, including a sun roof and tinted glass. The cost is Based on the Avenger GL 1600cc model, the new Avenger

GL 1600, four-door Special saloon and LS 1600 Estate also have special features in their apecification. The price of the GL 1600

Special saloon is £3,478 and the LS 1600 Special Estate costs

that if London is to be ellowed to realise its full potential, a series of inter-related policies will have to he put into action. The chamber singles out for urgent consideration education, elecommunications, transpert, The clamber, in a list of pri- housing, planning and financing.

# £2.6m for seven years to build a factory at Wrexham processing carton paper for food packs, and will initially provide 50 jobs. with 50 more foreseen.

projects...

£2.6m for 10 years goes to Tockwool to build a mineral wool factory near Bridgend Glamorgan This abould creat some 200 jobs.
Blaenau Plastics received 5850,000 over seven years for new factory at Blaenau Fresting producing plastic components It should be fully aspirations tend to prevail in on stream by 1981, and create about 110 johs.

The loans have been made in various foreign currencies, but each company has obtained cover against exchange rate fluctuations.

# Winter costs **National Bus** Company £12m

By Janice Madarland

THIS YEAR'S weather has jet the National Bus Company ! legacy of problems—a bill of at least £8m for engineering repairs, a further £4m in tost fares, and disrupted services in many of its 30 subsidiary but companies

About a third of NBC's 12,000 buses were damaged either by bad weather or accidents during the first three months of the year and today the compan-appealed to passengers incom-venienced by this to understand "We did our best to keep 585

bus and coach services goings the Arctic weather and are striving to provide a complete service," said Mr. Robert Breeke NBC's chief executive Com maintenance staff is working flat. out to put things night but cannot be done overnight.

# 200 lose jobs

But Aston Martin said it did not think the rise would hit sales—presently nne a week. Increases of £3.000 go on the VS which costs just less than 527.000 and on the VS Vertical for the costs for the \$27,000, and on the V8 Vantage of Northampton, has been, which now costs \$29,998.45. forced to close. \$27,000, 2nd on the which now costs \$29,998.45. forced to close.

# Report may suggest further rises for top public servants

BY JOHN ELLIOTT, INDUSTRIAL EDITOR

EXTRA SALARY increases of Rises of about 25 per cent between 5 and 10 per cent may the make high lised industry chairmen and other top public servents—who increasing their salaries from yesterday received rises ranging around £27,000 to £33,500 a up to about 25 per cent.

The recommendation will be Next April these chairmen

The recommendation will be will get £40,000. Following contained in one of three reports will get £40,000. Following contained in one of three reports will get £40,000. Following the Life of the National Enterprise covering top salaries, the armed chairmen of the National Enterprise Board and the British Life objective will be to bring Steel Corporation will have pay rises which were assessed chairmen of smaller bodies sequent increases in inflation and in the pay of comparable occupations in the private

The recommendations will be especially embarrassing for the Government following the industrial unrest among civil servants covered by general pay

It is likely that the review bodies for the armed forces and the dioctors and dentists will be fore the General Election But the top salaries report may not arrive until later in May.

Yesterday's rises were paid to the chairmen and board members of nationalised indusarmed forces and the judiciary following last year's report of

go to the chairmen of national-ised industries such as coal, railways, electricity and gas, increasing their salaries from

chairmen of smaller bodies such as the Welsh Development Agency and the National Water

Council will be on £25,000. It is these salaries that the Boyle review body will be recommending should be raised so that the people covered do not fall too far below comparable salaries elsewhere. The last hig rise given to the nationalised industry chairmen and board members was in

The Government's official interpretation of a "top salary" was given as £40,000 a year in the Commons on Friday. In a written reply to a parliamen-tary question, Mr. Robert Shel-don, the Treasury Financial tries and other top public Secretary, said that a "typical ind a new last armed forces and the judiciary times the average national wage. In 1976 the average top salary was £30,000, he added.

# **Wool chiefs** seek supremo

Financial Times Reporter

A SUPREMO is to be appointed for the Yorkshire-based wool rmal. The lineering effects of

advertised at a salary of not e industry for weeks. less than £15,000 a year, is part The impact upon distribution of a re-organisation which the only this year has been industry hopes will help boost officient to rob Sir Charles it in changing trading condi-illiers, chairman of the British

teel Corporation, of hopes that The new snpremo, who will le concern's estimated £350m have the title of director-general officit in 1978-79 nught be will be responsible for advising evarsed in time to break even on pulicy and implementing the turing 1978-80.

decisions of a policy board British Steel's hard-pressed which is to be act up. He willnanagement finds its attempts be the spokesman for the drag the husiness back into industry, particularly in itsorofit, after four years of dealings with the Governmentheavy losses, being threatened and Common Market officials, from, now, another direction. The changes, expected to he The put into effect later this yearstrategy of concentrating iron

production from its new 10,000-

tonnes-a-day hiast furnace that

vill start production at Redcar

are a move to unify thand steelmaking upon industry's trade associations b fewest possible low-cost coastalmerging them into a networks, to keep costs down and federation or employers organ profits on sales up, is being sation which will reoresent th challenged by the coal lobby. interests of over 600 membe. At issue is whether the companies corporation should have

It is felt that the restructu right to import coking coal ing will give the industry from Australia to get the hest more powerful body in i production from its new 10,000efforts to prevent further er sinn of trade and create climate for exnansion. Mr. Derek Bradhury, a lea-

It is likely to be resolved at ing member of the industri said in Bradford: "Our obje he Cahinet table rather than etween British Sleel and the is to strengthen the nrgani-tion of the industry in line wi National Coal Board, If abour Government is returned changing economic and comm n May the coal lobby is expeccial conditions."

Problems still facing British Steel imports.
The Redcar furnace is among the world's biggest, and twice as big as anything else in

d rail strikes will be fell in Europe. It involves an investment of £400m, the biggest single capital investment in iron and steel made in Europe. Its function is to make some

the cheapest iron available to any steel company, in turn, that iron, fed to the steel furnaces, will reduce the cost of the corporation's steel and make a big contribution towards improving its competitive position at home and abroad.

British Steel's blast furnace performance does not compare well with those of other steelproducing nations,

In Britain, 590 kg of coke are needed to make a tonne of iron compared with 490 kg in West Germany, 450 kg in Holland, and only 430 kg in Japan. The new furnace, with its economies of scale, is intended to redress that imbalance.

The Redcar blast furnace will need 2.2m tonnes of coking coal a year. Duriog its planning, a working party was formed, incorporation and of the National Coal Board, to decide how the coal should he obtained.

The Board went ahead with schemes to increase its Northeast coking coal output. To some extent it was frustrated geological obstacles in seams it wished to develop.

pit development in the North-east and in the Kent coalfield. Two contracts That investment, the Board says, is to meet a demand from

EWS ANALYSIS • ROY HODSON REPORTS ON NATIONAL INDUSTRIES AT LOGGERHEADS

The working party agreed upon the special blend of coking coal needed to run the new

furnace properly. The coal needs a closely defined reactivity in terms of its chemical qualities. It needs the physical strength as coke to take the weight of iron ore above it in the giant furnace.

In both areas the Board and British Steel agreed that they were moving into new territory as far as use of coking coal in Britain is concerned,

The working party decided upon the type of coking coal needed but failed to agree on how it should he supplied. The best blend appeared to be a duced and three-quarters of imported coal.

At that point, the two nationalised industries agreed to disagree as to how the coking coal for Redcar should be pro-

The National Coal Board said that it could provide enough ing coal to make a suitable onxious to reduce the variables blend equal to the mixture of home and foreign coals. British Steel. unimpressed, decided can control is the coking coal

signed between British Steel and the Australian coal producers. The first is for 300,000 tonnes of medium volatile coking coal each year nntil 1981. The second is for 250,000 tonnes a year for nine years. The prices arc less than £30 a tonne.

The contracts give British Steel some of the hest coking coal in the world. The experts do not quarrel on that. Moreover, the Australian prices are £10 a tonne less than the best prices offered by the NCB, which has 10 deep-mine its coal in difficult conditions.

British Steel maintains that its decision was not influenced by the lower Australian price. It strictly technical grounds as the best raw material to ruo its new mix of a quarter of home-pro- and complicated hlast furnace in the most efficient way it

> There is much mystique and empirical lore about operating a 10,000-tonnes-a-day blast furnace. It is an operation on a scale never previously attempted in Europe; even in Japan, experience is limited.

> British Steel is maturally as far as possible before the

contracts have been 25 per cent combination of foreign-to-bome coals to the less efficient 55 per cent/45 per cent

formula. But that is as far as it will go. The principal weakness of the NCB case is that the British coalfields are short of the favoured "301" variety of coking coals, the low and medium

volatile variety. The board would like British Steal to take more of the bigbly volatile coals ("501" variety that it can supply. British Steel argues that it would be penalising its investment if it uses bighsulphur content British coal

with poor coking qualities. British Steel buys about 8.5m tonnes of coking coal annually from the hoard and imports another 1.8m tonnes of special coking coals to obtain the com hinations it needs. The new contracts with Australia would increase imports to between 2m and 3m tonnes a year.

Coking coal supplies for the Redcar furnace look like being a test case. If the hoard wins the right to supply the furnace from home coals, at the expense inevitably of British Steel iron output levels, it will then bave every reason to press further to substitute hame coals for the remaining 1.8m tonnes a year of coking coal imports.

# **LABOUR**

# End national pay talks. says engineers' chief

BY ALAN PIKE, LABOUR CORRESPONDENT

THE POSSIBILITY of abandon- to try to keep wage rates at a THE POSSIBILITY of ananon- to try, to keep we desire it ing national wage negotiations really low level."

To suggest the suggested today by Mr. John should have a bar suggested today by Mr. John should have a bar suggested today by Mr. John whole for a 40-bit lim Amalgamated Union of Engin- value of the engine workers.

The Possibility to ananon- to try, to keep we really low level."

Engines for the

and to a craftsn

and to a definition of the employers' offer

must force all of us to question the usefulness of any more national committee engineering industry.

Interior this month it must surely give some thought to be passing the Engineering industry to be passing the Engineering industry.

Mr. Boyd launches a strong attack on the EEA accusing the employers of being oblivious to all that is happening and one of the continuous interior and microprocessor age.

Both unions and employers in the engineering industry have until now/valned the national offer made by the EEA last months increased offers to 55 per yeek on basic rates in reply to a claim for up to £20.

Mr. Boyd says is his article that employers had shown their offer that they ast changing society other than working party to consider this.

# B-A-T Industries on the move...

Today, B:A:T Industries Limited move to new Group Headquarters at

Wirdsor House, Victoria Street, S.W.1. From this new building, the management team will continue to guide and plan overall Group strategy indensure that B.A.T Industries sustains ts homentum, remains in the move.... throughout he world.

New Grow HQ: Windsor House, 50 Victori Street, London SV1H ONL. Telephon 01-222 7979. Telex 915 95.

# Briginshaw defends print union's financial moves

BY NICK GARNETT, LABOUR STAFF

general secretary of the National Society of Operative Printers, Graphical and Media statement yesterday defending financial policy decisions by the union during his leadership.

The union is seeking legal advice on whether to take civil proceedings to recover money. that might be owed the union from property deals. Inquiries are also taking place into the operation, of Swiss bank accounts and into companies set up through the union or hy officers acting on their own authority

Lord Briginshaw's statement saya: "All actions taken by officers and staff were in accordance with the known and decided policies and instructions or the executive council and governing council and appropriate ballot votes of the

LORD BRIGINSHAW, former general secretary of the various Society of Operative Printers, Graphical and Media Personnel (Natsopa) issued a safety of the society was actually in the society was actuall solvent, as most trade unions are today.

"Natsopa in 1951 was in insipient hankruptcy as a result of inter-war generosities of tha society with certain benefits to the membership, Policies and actions initiated with the execusubsequent years avoided the development of a hankruptcy situation during those years."

A special audit of the union's accounts has been carried out by Baker Sutton and Co., City accountants. Mr. Owen O'Brian. tha present general secretary, said at the weekend that it future the union would present its balance sheets and financial statements in the way suggested in the accountants' report.

# Re-election of Tierney **boosts union moderates**

THE MODERATE leadership of . Britain's sixth largest union, the Union of Shop Distributive and Affied Workers, appears to have Stonebouse of Leicester were received a vote of confidence with the announcement yester-day of the re-election of Mr. Syd Tlerney, MP, as national

president . He had an 80,000 majority over his Left-wing challenger Mrs. Audrey Wise, MP.

\*At the same time the Left-Wing candidate for the general ecretaryship, the election for which is still taking place, has lost his seat as a member of the national executive. He is Mr. John Diks, who was convincingly beaten by his two success-ful moderate challengers.

In the presidential voting Mr. MP for Birmingham Walley received 188,000 votes

council election Mr. Ray Scherer of Nottingham, and Mr. Dick elected with 43,000 and 37,000 votes respectively. Mr. Dilks obtained 27,000 votes.

Although Mrs. Wise's defeat means that the union loses its chance of having a woman president for the first time, two additional women were elected to the executive—Mrs. Betty Wardle and Mrs. Loui Woolston -both from Manchester.

The election for genera secretary bas been caused by the imminent retirement of Lord Allen, who has led the union for 17 years. The contest is between Mr. Dilks and Mr. Bill Whatley who is the nmon's chief organising officer with Mrs. Wise's and standard bearer of the

BAI INDUSTRIBS Tobacco · Retailing · Paper · Cosmetics Worldwide

GENERAL OUTLOOK

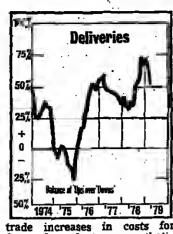
# Optimism falls further

outlook for business continued to decline in last month's survey, and this was mirrored by a further drop in confidence over the prospects for the UK economy.

The March survey covered the building and construction sectors, as well as textile and clothing and the food and tobacco groups.

The decline in optimism over the last four months in the building sector was attributed mainly to industrial unrest and the bad weather. However, fears of recession, the world economic position and general uncertainty were cited as

In the textile and clothing prices had an impact—was the



where the rise in oil

main factor contributing to loss of confidence. One of the main complaints over the prospects for the

economy was that the very unequal level of wage settlements might lead to further wage inflation, together with further industrial trouble before the end of the current Export expectations also con-

tinued to fall. Companies in the food and tobacco and textile and clothing sectors were more inclined to ace exports remain at the same level in the next 12 months, rather than higher as trade increases in costs for they had four months ago-firms depandent on synthetic Building and construction comexpected exports to

### GENERAL BUSINESS SITUATION

our company's prospects than you were our months ago?	Dec Mar. %	Nov Feb. %		Sept Dec. %	Constru tion %	rc- Food & Tobacco %	Textiles Clothing	,
More optimistic	31	31	25	34	9			
Neutral	35	43	55	51	76 9 32 59	37	36	
Less optimistic	34	26	70	15	59	26	61	
	35 34	43 26				26	_	61

Statistical Materia opyright Taylor Nelson Group Ltd.

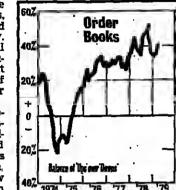
EXPORT PROSPECTS (Weighted b)		orts)	noving			March 19	
Over the next 12 months exports will be:	Dec Mar. %	Nov Feb.	Oct Jan. %	ept Dec. %	Construction %	c- Food & Tobacco	Textiles & Clothing
Higher	61	67	71	79	46	31	33
Same	30	22	21	16	14.	69	50
. Lower	9	10	6_	3	38		17
Den't know	_	1	2	2	2	_	<del></del>

### ORDERS AND OUTPUT

# Drop in recent deliveries

dropped in all three sectors, the picture on new orders and order books was not so gloomy. However, there was a alight fall in the median expected in-crease in turnover over the next 12 months—from an increase of 7.1 per cent to one of 7.0 per

The main factor in the downturn in dallveries was the transport strike. However, the building sector had also been affected by the had winter as well as cutbacks in public expenditure, The weighted index for new orders showed no change—an improvement among construc-



tion companies being offset by a downturn in the textile and clothing sector. The survey warns, bowever, that in view of the pattern of the answers it is ouite possible that the index may once again start to fall.

Companies in the food and tohacco sector were more inclined to expact order books to increase and as a result there was a amall risa in the index. There has been a slightly greatar tendency for companies expect ontput or sales over the next 12 months to increase by less than 5 per cent. Never-theless, this indicator remained relatively buoyant.

_		
MFW	ORDERS	

NEW CHIPERO	4 monthly moving to				Märch 1979			
The trend of new orders in the last 4 months was:	Dec- Mar. %	Nov Feb. %	Oct Jar. %		Constru tion %	rc- Food & Tobacco %	Textiles & Clothing	
Up	50	49	54	В	35	56	39	
Same	14	16.	11	В	27		51	
Down	15	14	12	•	14	26_	8	
No answer	21	21	23		24	18	2	
PRODUCTION/SALES TURNOVER	4 n	nonthly r	noving tot	Γ		March 19	 79	
Those expecting production/sales turn-	Dec Mar.	Nov Feb.	Oct Jan.	_		c- Food & Tobacco %	Textiles & Clothing	

PRODUCTION/SALES TORNOVEN	4 n	nonthly r	neving tota	March 1979			
Those expecting production/sales turn- over in the next 12 months to:	Dec Mar. %	Nov Feb. %	Oct S Jan. 4	t. Constru tion %		Textiles & Clothing %	
Rise over 20%	6	3	4		17		
Rise 15-19%	8	11	10	_		6	
Rise 10-14%	19	15	10	5	21	15	
Rise 5-9%	21	21	23	38	9	24	
About the same	36	31	32	53	23	53	
Fall 5-9% .	1	1		-			
				3			

### CAPACITY AND STOCKS

# Working below plan

ALL THREE sectors were more inclined to say they were working at helow capacity than they had been in November. This meant that the index measuring the extent to which companies were working at planned output levels or above—which had been rising—has now dropped

The sbarp decline in the level of expected bought-in supplies in February has come to an end. Companies in the building and textile and clothing sectors were less inclined to expect stocks of next 12 months, but food and tobacco companies were more

20%	- 200	tors Pr	oduc	tion	
-	A	herage	citing supp		_
20%	1	citing ord	prof.	*-	
402	1	+-		+	÷
60%	. 1			M	_

in the Index for work-in-pro-While there was a slight fall gress, the other indices, cover- transport dispute.

ing the overall level of stocks and bought-in supplies, in-

There was little change in the index covering the level of stocks in relation to current sales trends. While the build-ing and textile and clothing sectors were more inclined to say levels were too bigh than they had been last November, this was counterbalanced by findings in the food and

There was little change in the pattern of answers covering fac-tors affecting production, although companies were less inclined to mention labour disputes, following the end of the

### CAPACITY WORKING

	4 n	onthly n	noving t	otal	 March 1979		
	Dec Mar. %	Nov Feb.	Oct Jan.	Sept Dec.		Textiles & Clothine %	
Above target capacity			·				
Planned output							

OMFACIII WUNKING	4 n	onthly i	noving to	otal	March	ī
	Dec- Mar. %	Nov Feb.	Oct Jan.	Sept Dec.	Construc- For	
Above target capacity						_
Planned output						_
Below target capacity	· ·					_

### STOCKS

·	_ 7 17	IOHLINY (	MOAILS D	ucau		March 13	17/7	
Raw materials and components over the next 12 months will:	Dec- Mar. %	Nov Feb. %	Oct Jan. %	Sep De	Constru		Textiles 8 Clothing %	
Increase	42	. 36	34	37	27.	.56	18	
Stay about the same	42	45	49	46	49	44	53	
Decrease	8	7	. 3	4	1		29	
No comments	8	12	14	13	24		_	
Manufactured goods over the next 12 months will:				•				
Increase	32	25	25	37.	7	74	18	
5tay about the same	39	47	43	40	59	17	36	
Decrease	8	7	5	6	19		44	
No comments .	21	21	27	23	15	9	2	
				7	7			

### FACTORS CURRENTLY AFFECTING PRODUCTION

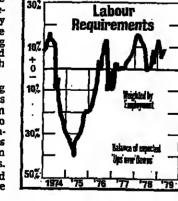
	Mar. %	Feb.	Jan. %	Dec.	tion %	Tobacco %	Clothing
Home orders	81	79	79	33	92	98	90
Export orders	60	67	63	57	49	28	65
Executive staff	16	. 19	19	—. <u>3</u>	1 -		24
Skilled factory staff	27	27	42	-5	1-	26	39
Manual Labour	10	12	12	7	9		15
Components	3	4	4	6	1-		15
Raw materials	12	14	9		111	18	
Production capacity (plant)	11	. 4	4	4	8	37	
Finance	1	1	1	<u>_</u> _1	1-		
Others	10	7	.9	-5	4	18	2
Labour disputes	. 18	26	26	25	4		63 ,
No answer/no factor	3	5 .	3	1	4		8

### INVESTMENT AND LABOUR

# Better job prospects

THERE WAS a slight increase in the index for lahour requirements. However, the survey warns that much of the increase derived from the weighting pattern of answers and should therefore be treated with

Companies in the building and textile and clothing sectors were more inclined to mantion employment legislation, plans to increase productivity and un-certainty about the future as factors discouraging them from increasing employment levels. Both the building and food and tobacco sectors were more



inclined to say that their capital expenditure would increase over tha next 12 months in voluma terms. As a result this index, which had been falling, has started to rise.

Weighted by capital expenditure, tha halance of companie expecting an increase in invest mant over the next year ove those expecting a decline rose from 38 per cent to 42 par cent

At the same time all three sectors were more inclined to say they would require outside finance for capital expenditur in the next year than they had

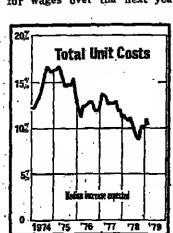
. <del></del>	4 π	HOUTHIN I	LOAILE E	otal		March 19	/9
Those expecting their labour force over the next 12 months to:	Dec Mar. %	Nov Feb. %	Oct Jan. %	Sep Dec %	onstra tion %	robacco	Textiles & Clothing %
increase	26	27	30	32	.11	24	8
5tay about the same	57	<b>S1</b>	53	43	66	54	74
Decrease	17	22	17	25	23	22	18

es		4 n	nonthly r	March 1979				
e the n	e expecting capital expenditure over lext 12 months to :	Dec- Mar. %	Nov Feb.	Oct Jan. %	Sept. C Dec. %	ion	c- Food & Tobacco	Textiles Clothing
nt	Increase in volume	53	46	47	46	56	64	39
to le —	incresse in value but not in volume	6		8	10	L		30
re	Stay about the same	23	23	23	18	28	36	15
d :	. Decrease	16	16	14	16	16		16
	. No comment	2	7	8	10	1		<del></del> -

### COST AND PROFIT MARGINS

# Wages move up

alowly uoward, although the reverse pattern seems to be



moved up from 12.2 to 12.5 per from a sample based upon the cent between February and FT-Actuaries' Index, which March, while the comparable accounts for about 60 per cent

COMPANIES' expectations of figure for unit costs fell from of all public companies, wage costs continued to move 11.1 to 10.4 per cent. The all-industry figure The pattern for expected four-monthly moving totals price changes was similar to

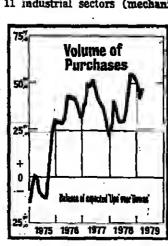
evident for total unit costs.

The median expected increase for wages over the next year among coostruction and textile companies more than balanced by forecasts in the tobacco and food sector.

There was a further drop in the index covering profit mar-gins, with the building and food and tobacco sectors both more likely to say they expected margins to contract. Among the factors cited as tending to reduce margins were price competition at home and abroad and wage and cost increases,

including those of oil These surveys, which are caried out for the Financial Times by the Taylor Neison Group, are based upon extensive interviews with top executives. Three sectors and some 30 companies are covered in term evary month. They are drawn

The all-industry figures are covering some 120 companies in 11 industrial sectors (mechani-



cal engineering is every second month).

Complete tables can be purchased from Taylor Nelson and Associates.

## LABOUR REQUIREMENTS (Weighted by employment)

·;	4 n	nonthly r	noving to	otal	1	March 19	79
Those expecting their labour force over the next 12 months to :	Dec Mar. %	Nov Feb.	Oct Jan. %			r- Food & Tobacco	Textiles & Clothing %
increase	26	27	30	32	.11	24	8
5tay about the sime	57	51	53	43	66	54	74
Decrease	17	72	17		1 22	22	10

## CAPITAL INVESTMENT (Weighted by expenditure)

## COSTS

					~		March 17	7
Wages rise by :		Dec Mar. %	Nov Feb. %	Oct Jan, %	Sept Dec. %	Con	Tuc- Food & Tobacco %	Textiles 8 Textiles %
	5-9%	14	19	24	24		18	3
	10-14%	61	55	51	56	7	63	83
	15-19%	14	11	8	6	— <u>-</u>	17	12
	20-24%	· 1	1	1				
	No answer .	10	. 14	16	74	—-	2	
Unit cost rise by:	<u> </u>	<u> </u>						<del></del>
	0-4%	1	1	<del></del>	1		<del></del>	
	5-9%	26	26	35	34		46	6
	10-14%	46	45	43	43	92	<del></del>	75
:	15-19%	10	11	3	<u> </u>	<u>—<u>"</u></u>	<del>]                                    </del>	12
	20-24%			<del>-</del> -			<del>-</del>	3
:	25-29%						<del></del>	<u>2</u>
7	Same	3	3				<del>}                                    </del>	
:	Decrease	4	_ <u>_</u> _		2		17.	
	No answer	10	14	18	19		-	• 2
							<del></del>	

PROFIT MARGINS	4 n	nonthly n	noving t	otal	1	March 19	79
Those expecting profit margins over the next 12 months to :	Dec Mar. %	Nov Feb.	Oct Jan. %	5ept Dec. %	Constr tlan	re- Food & Tobacco %	Clothing
Improve	43	40	39	33	49		54
Remain the same	35	47	41	40	12	19	16
Contract	20	12	13	21	35	46	15

# I.D. & S. RIVLIN **HOLDINGS LIMITED**

Notice is hereby given of the appointment of Lloyds Bank Limited as Registrar

All documents for registration and correspondence should in future be sent to the address below.

> C.B. RIVLIN Secretary



Lloyds Bank Limited, Registrars Department, Goring-by-Sea. Worthing, West Sussex BN12 6DA. Telephone: Worthing 502541

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# **BUSINESS MEETS BUSINESS IN AFRICA**

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   construction industry
- woodworking machinery
   hospital equipment
- printing machinery
- transportation

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1st Expo Egypt '79

Conference 8-11th

4TH EXPO Africa '79

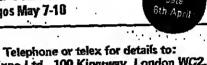
KENYA and International Confe

5-18th Octobe

Nairobi

March 1979

- 3RD EXPO AFRICA



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## **CONTRACTS AND TENDERS**

LEMBAGA LETRIK NEGARA TANAH MELAYU NATIONAL ELECTRICITY BOARD OF THE STATES OF MALAYA

### TRENGGANU HYDROELECTRIC PROIECT

CONTRACT NO. 1854/3

TUNNEL LINERS AND PRESSURE PIPELINES The National Electricity Board Invites applications from suitably qualified and experienced contractors wishing to be registered in Tenderers for the Tunnel Liners and Pressure Pipeline Contract for the Trengganu Hydroelectric Project in Trengganu, Malaysia. The work will comprise the fabrication and delivery of approximately.

1,380 m of steel tunnel liners and pipes with a diameter of 3.75 m and with plate thickness varying from 14 mm to 25 mm. Approximately 2,430 tonnes of notch ductile carbon maoganese steel plate.

will be required. Corrosion protection of the liners and pipes will The National Electricity Board through the Government of Malaysia has obtained a loan from the Overseas Economic Co-operation Fund, Japan to finance the foreign currency portion of this Contract.

Application for registration will be considered from interested.

contractors of the following countries: Member Countries of the Organisation for Economic

Co-operation and Development (OECD).

Developing Countries in general subject to individual notification of approval by the National Electricity Board. Formal applications for registration should be submitted not later than 16 May 1979. It is expected that Tender Documents will be issued to Registered Tenderers about August 1979 and that Tenders will be required to be submitted about 3 mooths thereafter. Full details of the applicant's experience in the fabrication of large diameter steel pipes must be forwarded with their application, together with details of their technical and financial competence, dications must be accompanied by a Banker's Order or Draft for 5A250 payable to 5nowy Mountains Engineering Corporation as a documentation fee. The documentation fee will be refunded only

Applications must be forworded to:

to applicants not issued with Tender Documents.

Project Manager
Trengganu Hydroelectric Project
5nowy Mountains Enginearing Corporation PO Box 356, Cooma North, NSW 2630, Australia with a copy to:

Project Engineer Trengganu Hydroelectric Project National Electricity Board PO Box 1003, Kuala Lumpur, Malaysia The National Electricity Board is not liable for costs incurred by

## WANDSWORTH CORPORATION Installation of Heating at Surrey Lane Estate, S.W.11

opplicants in preparing opplications and will not be liable for costs Incurred by Registered Tenderers in preparing Tenders

Contractors wishing to be considered for selection to tender for the installation of heating to 313 maisonettes at Surrey Lane Estate, Battersea, should submit names to the Director of Administration. The Town Hall, Wandsworth High Street, London, SWIS 2PU, by 16th April.

Two contractors are to be appointed, each being responsible for approximately half of the total number of maisonettes to be dealt with.

The work involves the removal of the existing warm air heating units and cupboard and the installation of an independent gas-fired boiler serving radiators in each dwelling. Each contractor will be required to complete all associated builders' and electrical works. It is anticipated that specifications and drawings will be issued to selected contractors in July/August 1979 and that the contract period for each half of the work will be from December 1979 to October 1980, .

Applicants must give details of labour, technical and supervisory staff available, together with the names and addresses of two technical and two financial referenses The engineering services for this scheme will be provided by the Council's Director of Development.

هكنامن الميهل

# Over £10m worth for Crovn House Division of Wiltshiers has been awarded contracts worth nearly \$500,000.

FORMED TO handle overseas starts in May with completion with interests for the Group, Crown due in a year's time. Watk Engineering International bas won contracts in ation International as main the Middle East valued at

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Organisation for Industry, Withmain contractor, John Laing International, in a £4.5m con- next year. tract, the company will supply and instal the air-conditioning and electrical work, plumbing, fire protection, compressed air tion of air-conditioning, plumbservices and cranage, for a factory project at Helwan, Cairo. Cementation International is

contractor, plumbing, electrical and air-conditioning services Four contracts in Egypt have will be installed at an office been awarded by the Arab complex. Work on this project (valued at £780,000) starts next month with completion in April

A £3m contract at a factory project at Heliopolis, Cairo. also involves the supply and installaing, fire protection compressed air se and

Also at Helwan, with Cementstarted in February and comple for supplying and installing airtion is scheduled for September conditioning, electrical, plumb-ing and fire protection services, Hassan Mohammed Allai jocludes the installation of a Sons of Cairo is main contracte data log system, and conduit facilities. a general amenity on another factory project al. tubing, etc., for the security area, decoration of the rooms st Heliopolis. Vincent Gorbin system. and Partners is the archite and Watkins Hart and Pays is Comeniation Saudi Arabia. the consulting engineer on th

contract started in January. In Saudi Arahia, Crov House Engineering Parsons Brown is the consulting main contractor. Vincent Gorb- national will work for 1 starts very soon and comple-

contract for electrical, a

consulting englace on its Bank's headquarters at Watkins Hart and Payne, WorlDsmmam. This £1.7m contract

Wiltshiers

Fellowship of Remembrance. Young and Purves are the orchi-

In Ouecnhorough, Kent, Wilt-

shiers is creeting a chemical

production unit for Abbott

Laboratories while in High

Street, Canterbury, work has

begun on a £74,000 refurhisbing

ioh for the Sussex County

THREE industrial building con-

tracts, together worth about

£1.14m have been won hy

and the construction of four new

units, together with associated

warebouse and vehicle main-

for Riyadh

AL MORABA Intersystems of Al Khobar bas signed a contract

with the Riyadh office of Keang

Nam Enterprises of Seoul, Korea, for the supply of 190,000 square metres of Omnia wide

slab units and preeast parapels

Al Moraha, licensed Omnia

maoufacturers in the eastern

region of Saudi Arabia, will be

making the units in a specially

Value of the contract to Al

storey dwellings in Riyadh.

constructed on-site plant.

by the contractors.

The largest, for the Welsh

active

heating system.

Building Society.

awards

Tilbury.

Industrial

in Kent

Brnwn Daltas Associates is the conditioning and plumbin architect, with Orsi and Koemer services. Work on the fi Hardy Hobbs and Associates the chartered quantity surveyor -they are all from Rome. Work engineer for the work which ing and Partners the architect, Saudi Arabian Monetary Agen tion should be in January 1981.

Other contracts are a we THREE FACTORY blocks for Bryant is also to creet a bouse and office block in THREE FACTORY blocks for multi-storey car park for Sheldon, Birmingham, for it Warrington Development Cor-Redditch Development Corpora- Courch of Jesus Christ of poration are to be built by A. poration are to be built by A. Monk & Company under a £1.36m contract.

roads, sewers and accommodation works The three blocks, together In the same county, the coun-cil has instructed Tilbury to totalling about 10,200 square metres in area, will vary in proceed with an extension to height between 5.4 aod 6.9 metres to the caves and have in-tegral office accommodation in £100,000. The third contract is single and two-storey form to allow for future expansion. tenance unit at Carno, Powys,

Construction will be generally for Laura Ashley. steel frame on reinforced enncrete foundations, with low-level erele foundations, with low-level brick-hlock cavity walling and Omnia units external coloured metal cladding above. Architects are John Mather & Partners.

In Yorkshire Monk bas secured two contracts, one for new houses, and the other for modernisation of older property, both awarded by the City of Bradford Metropolitan Couocil. Total value of these awards is for a development of 800 single marine oil pipeline at Milford

Monk has also won two other contracts. One is from Brilish Rail Engineering for building an extension to the apprentice training school at Wolverton, Bucks. (£104,552) and the other from Skelmersdale Development Moraba is about £1.am. exclud-Corporation for the construction; ing materials and unskilled of an extension to a factory, labour which will be supplied of ao extension to a factory.

# Cartwright group busy LARGEST JOB in a number of Llandough, Cardiff, which will

Noseph Cartwright Group is for Association. estimated to cost Kirklees Metropolitan Council, £780,000. In Bath, work on a and is valued at £2.3m. This refurbishment scheme in the involves the building of six city centre will provide 32 flats THE CANTERBURY Building blocks of two-storey fists, giving in the restored Fountain Builda lotal of 182 dwellings close to lngs under a contract of the railway station in central £340.000 for the Knightstone he railway station in central Work has started on a Dewsbury. Another local authority job, valued at £425,000 £257,000 extension and renovation of Ledge Point at Wesigate is for 38 new dwellings at Gledon Sea, Kent, for the Post Office hill. Dewsbury.

Improvements to 121 bouses at Elland for the Calderdale tects for this project which calls Council are valued at £600,000, for the provision of new bar and 26 homes for the Bradford Metropolitan District Council are valued at £t50.000.

In the south, the company is commence a project at Crickhowell, near Abergavenny.

contracts totalling £5.4m provide 64 new dwellings for awarded to companies in the the Wales and West Housing local Housing Association.

> The group's civil engineering company has acquired contracts totalling £800,000, including reconstruction of the Brackla Road Bridge for the Mid Glamorgen County Council. flood prevention work at Siston. Avon, for Wessex Water Authority, and construction of a bridge at Port Pentre Bacb,

# Oil terminal in Ecuador

THE ECUADOR State Pelro- built to accommodate tankers up leum Corporation (Corporation in 20,000 dwt and needed to be Estatal Petrolera Ecuatoriana) has commissioned Sir William Halcrow & Partners to design and supervise construction of the second stage of an offshore tanker terminal required for the export of petroleum products from its recently constructed refincry at Esmeraldas. Mechanical and electrical engineer-ing services will be provided by Ewbank & Partners.

Development Ageocy, involves the £650,000 conversion of a The first stage development, large factory at Penalita, Mid-Glamorgan, into 7 small units which provided a temporary facility for the refinery and hecame operational in November 1977, and for which Halcrow was also responsible, comprised a four-hose sea-bed manifold located four kilometres offahore, in a water depth of 16 metres. The temporary terminal was

refinery, situated some distance

connected to the Esmeraldas

capable of accommodating the hospital will continue to vessels up to 50,000 dwt. Confunction. struction is foreseen of a tion, the terminal will include dolphins, and an auxiliary aervices and accommodation plataccess bridges.

### IN BRIEF

worth about £390,000 and is for Contracts worth £964,000 cold store in Wlsbech Road, awarded to D. Wilson (Birming-ham) include work for the Kings Lynn. New president of the Concrete Licensed Victuallers National Homes, Churchwell Housing

Society, Church Army Associa-tion and Bromford Honsing Pipeline insulation sub-contract worth £im has been placed with McGill Insulation Group, Hadleigh, Essex, by Land and Marine Engineering on behalf of Pembroke Cracking Company, for work on a 12-inch diameter, five milea long land and sub-

• Smith and Partners announces two major contracts with Tempco International: comprebensive conversion of an existing dry-storage warehouse

Beachcroft Concrete Partitions problems of dust and noise. (Phoenix Timber Group). In its annual report the Association says that the block industry met a rising demand in 1978; total deliveries were over 72m square metres, about 11 per cent more than in the previous year.

Resources Consultants) bas been site at Peterborough will be awarded a contract to design built by Wimpey Construction awarded a contract to design and supervise the construction for Sodastream, the company complex at Ruwi, near Muscat, mschines for fizzy soft drinks. Oman, by Oman Flour Mills.

· A fitting-out contract worth about £2m bas been awarded to Bovis Construction by Owen Owen. The work is to be carried out at the latter's new store due into a cold-storage chamber at

in Spain SPANISH MEMBER company of

Hospital

the John Laing Group, Laing SA, has been awarded a £6.2m contract to modernise the Gran Hospital, Madrid, for the Spanish Instituto Nacional de Prevision.

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Project is due to start in June and involves gutting areas of the 14-storey hospital (built in A recently signed contract for the late 1940s) and rebuilding provising of a permanent and them. Apart from cleaning the larger tanker facility, says Halexternal facing brick and stonecrnw. involves replacing the sea- work facade and structure will bed manifold by creation of a remain unaltered. During the two-berth sea island terminal period of the 30-month contract

Work also includes converting central loading platform serving four-bed wards into two-bed two alongside berths; in addi- rooma, replacing existing lifts with 15 new ones, including two separate berthing and mooring in newly constructed lift shafts. the transfer of 12 operating theatres into other areas of the building and the construction of form. Main structures will be an additional cobalt therapy of steel piled jacket design and room. Contract also covers comwill be interconnected by steel plete redecoration, rewiring, access bridges replumbing, and the replacement of heating and ventilation

Dividing the bospital vertically, work will be carried out in three overlapping phases. Temporary brick partitions will be built in passagea to isolate Block Association Is Basil M. the construction areas from the Rayner, managing director of rest of the bospital, eliminating

# **Factory** contract

• Ercon (Engineering and NEW FACTORY on a nine-acre of an animal feed processing which makes do-it-yourself

Contract is worth £2.3m and was announced by the Development Corporation which is bandling the city's expansion scheme.

The brick and steel factory into a cold-storage chamber at to be opened in 1980 in Red-will cover 144,800 square feet Dronfield, six miles from ditch, Worcs, Architects are and will be ready for comple-Sheffield and construction of a Stewart K. Riddick & Partners. tion in the summer of next year.

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# power

Work at

WEST COUNTRY subsidiary of the Mowlem Group, E. Thomas and Co., has won a £2m CEGB contract for civil engineering work at Hinkley Point A power station, Bridgwater, Somerset. Work involves the construc-

tion of two three-storey steel framed buildings each contain-ing a beavy reinforced vault for the storage of magnox fuel after its removal from the reactor. Each vault will be about 31.8 foot square, 39.4 foot high, and

partly underground. Both buildwill be about 52.5 foot high. Other work includes installing complex merhanical and electrical services and plant. Work is due to start shortly and should be completed in the

# Kent hotel extension

EXTENSION OF the Great Danes Hotel at Hollingbourne. Kent, is to be undertaken for Rank Hotels by Sir Robert McAlpine and Sons. Value of the contract is nearly £1m. Main task will be to add another 51 bedrooms in a threesinrey block. Work is about to start and is due for completion in early 1980. Architects are tion works in Peter Ednie and Partners and government. quantity surveyors, the Watkins

Awards to C. Bryant Variety

A CONTRACT to modernise 250 houses in Acocks Green, Birmingham, has been awarded by the City of Birmingham Housing Authority to C. Bryant Housing Authority to C. Bryant

Redditch Development Corporation as part of a town centre scheme. This is worth £1.5m. Another award, from Delta Tubes, covers reconstruction of two factories—one at the com-pany's island site in Heath Selwyn and Co. (£125,00— Rirmingham architect Robert D. Gbs

architeet and quantity survor Alan Douglas, and an cce block in Codaall, Woer-hampton, for F. Maind Street South, Birmingham architect Robert D. Gbs (£462,000), the other in Eyre quantity surveyor A. Reynos.

**Industrial buildings** LAUNCHED BY the Atcost also serve as an inherent ru Group of Tunbridge Wells is a tural member. new industrial building design A curved eave course of been introduced at the last system called Atcost 80, said to be particularly suitable for the wide range of column offering total versatility in company enables the area design possibilities.

Major feature is the variable acceptance. gutter location which, when positioned in the elevation, will act as a brick restraint, a lintel hour to four hours over windows or doors, and will resistance.

tional gutter level. This pl company, enables the acies ment of a bigb degree of issue The columns are said 1

Latter Day Saints (£235,00-

vide from a minimum (

# Dredging in Abu Dhabi

building contractors, HBG, has announced the award of a contract to its dredging division, HAM, for dredging and reclamation works for the Abu Dhabl This consists of deepening and will take about 11 nonts

channels and s harbour basin to complete.

rock have to be removd. two large cutter uct n dredgers will be mobilled. Project is due to stat son

# ONE OF Holland's largest together with reclamationwo

# for four industrial sreas. Ab 15m cubic metres of sad a

# INSTRUMENTS

Dronfield, six miles from

# Thickness measurement

digital ultrasonic gauge named Audit-80.

Access to only one side of the test plece is necessary, which facture ensures correct calirepresents a big advantage over micrometers and

Audit-80 is intended to meet

measurement eliminate the risk ward stage where significant of errors through incorrect in- savings can be made through the strument calibration and are in-rejection of unsuitable material before money is wasted in using thickness it in manufacturing processes Circuit precalibration and encapsulation during manu-

bration for use on steel in the standard instrument throughout the life of the instrument during normal use. There are no controls for the operator.

Even the on/off switch bas been incorporated in the probe so that it operates automatically when the probe is placed on the test surface. In this way operation is simplified to the utmost so that the instrument can be operated with only one band and hattery life between charges is prolonged. Baugh and Weedon, Wide-

marsb Street, Hereford (0432)

# Systems Technolog Generations To Com BANKING Counts the notes at

high speed SPECIALISING IN the design, development and manufacturing of bank-note processing systems, the Swedish Company Inter Innovation has received orders from Barclays Bank, Chuhh Integrated Systems and Datasaab for over 800 cash adapters

and dispensers. The adapter takes over the tedious and time-consuming part of counting and delivering money and does it much hetter. It can handle the same number of denominations as a teller aod it is able to work with new, used and poor quality notes in any mixture. It does the job fast and reliably, allowing the tellor time to give better service to the customer, and it increases bank

tuting the prohe for fixed values floor security. The system delivers to the teller the exact amount of notes required, in one bundle, ready to be banded straight to the ward Road, Kirkby Industrial customer. With microprocessor control the adapter is so fast that it can easily be operated by two tellers simultaneously, dispensing around 15 notes per

aecond. Orders from Datasaab include over 250 units representing an sible variations that may occur, MULTI-FREQUENCY eddy-cur dependent upon frequency set-initial sbipment of equipment due perhaps to mains changes. rent test instruments of high ting and type of probe or sensor to support Citibank of New Once the unit has stabilised, the resolution stability and sensi- utilised.

York, N.Y., teller-terminal typical slandby current contivity are being introduced by F 2.825 has fscilities for system which is being installed

The heart of the cash adapter Designed for flaw detection systems: it will operate with is a modular mechanism (the MDDM), providing a choice of when smoke in the chamber tivity measurement, coating fixed or rotating probes, scan note capacity and number of reaches 1.5 per cent obscuration thickness and clearance ning probes, etc. of any manudenominations to the user. Money is stored in tamper-proof Standard 19-inch modular cassettes designed specifically sbown by an indicator on the and precise determination of racking enables servicing to be to be simple to handle and

> Chubb, the UK bankingdownwards and lock in position equipment supplier, has made a s renured.
>
> Successful design around the Operational temperature range MDDM of customer-operated connection for data processing is 0-35 degrees C although units note dispensers and automatic for use at higher temperatures teller machines (ATM). Its Test evaluation is by digital can be supplied to order, it order for 500 units includes volmeter readout of x, y and z weighs 41 kg and physical equipment for the Swedish components and an oscilloscope dimensions are 510 mm wide x nationwide ATM network operated by a consortium of Wells-Krautkramer. Castle commercial banks, with Philips

> > Inter Innovation, Box 43009,

# ERS Technical News **EDITED BY ARTHUR BENNETT AND TED SCHOETERS**

**O ANALYSIS** Identifies the oil

A DATA analytical technique In each case the analyst that could have numerous would need a data bank of applications withln the oil information on the oil types industry has been developed by likely to be present.

a Norwegian scientist reports Dr. Olaf H. J. Christie, head Fay Gjester from Oslo. The of Oslo University's Mass method could be used to Spectrometry Institute, has identify the contributors to a developed the technique during composite oil slick, and to establish the proportions of different his source time without the back-

lish the proportions of different his spare time without the back-oils present in the silck. In of either industry or gos-Similarly, it could be used to ernment. It is based on extendetermine accurately the propor- slope of existing analytical tions of oils delivered from methods, particularly one different -operators simul- derised by Dr. F. Wold of Umea different operators simul-taneously to a common pipeline (provided that the chemical composition of the olls was

University in Sweden, a world expert on chemical classifica-

.Dr. Christie'a method relies

on the fact that ois for different sources bave neir wan chemical "fingerprint." Jich oil contains different amonts of various elements an oranic compounds. Its compostio can be translated into cor language and stored o adats bank. Then, by comparing the composition of a slickor acomposite oil delivery with the information in the and the required answers can be sund.

Although the thecy blind the method is far abov layman's bead, it preduces evidence in the form if pa On a computer printout bicb laymen could recognise and accept.

· Clusters of numbers print-out (each number tepresenting a type of ill show clearly which types are in s composite slick ard proportions.

the scientist's conclusion would be of value in a cut case where a jury bad to le de the liability of different coorbutors

This visible demonstration of produce weather pictures (photofacsimile images of the British Isles, These images are

This machine is now being marketed by the Addison Tuni Company (Westfields Ruad, Actua, London W3 0RE) for cold-forming metal rods, tubes and sections into rings and spirals. The standard tooling supplied is suitable for strip, angle iron and sections with a hasically square or rectangular profile. Alternative tooling for rounds and other shapes not readily accommodated in the standard tools are said to be easily fitted.

COMMUNICATIONS

# Coping with satellite data INVOLVEMENT in weather and factured. It provides a con-

satellite communication tech- tinuous record of these scintilnology by S.E. Laboratories (EMI) has increased since the Post Office Research Centre at recorder.

The centre is investigating radio wave propagation. Its experiments, which began on a Quick end full time basis in January, form part of Europe-wide programme of feasibility studies into the of feasibility studies into the characteristics of satellite communication networks under

Object of the experiments is to provide European PTT organisations with the necessary information systems for the introduced extinguishing sys-1980's. Such systems will be tems that can be suited to the used for voice, radie, television precise needs of the customer. and computer data communica-

Extremely high frequency signals are being sent up to a European geostationary satellite (OTS 2), from which they are bounced back to a disb aerial at Martlesham and recorded. Signal deterioration due to adverse weather conditions such as heavy rain, snow, thunder, whether the effects of this can

be reduced. the signals (called scintilla-

mentation magnetic tape University of Dundee to belp Division. 01-890 14-7 the effects of the weather on SAFETY AND SECURITY

# Gas alarm

Known as the Monitox personal gas alarm system, the in- MAINS operated, the 7292-03 dividual detectors measure only 104 x 62 x 29 mm and weigh only 150 grams; each uses

level, with an earphone for use emitting diode light source in noisy areas.

"plug-in" arrangement avoids the problems normally arising when bandling toxic gases.

Scope can be extended by the use of an additional dosemeter to compute the time weighted average over working periods up to 12 bours. Microprocessor cootrolled, it stores and subseof equipments for the detection quently prints out a concentra-

# early on

smoke switch from Chloride

Basic arrangement is a light

(with a 30 year rated life) and A small battery-operated gas a pair of photocells, one of generator provides a simple which receives light only when and fast functional check of the it is acattered by smoke while detectors (five at a time) before the other monitors the LED they are issued to personnel. output to compensate for pos-Once the unit has stabllised, the resolution stability and sensi- utilised.

degrees C).

The smoke switch is factory calibrated to produce an alarm and materials sorting, conduc- atandard or special transit coils, reaches 1.5 per cent obscuration thickness and per foot. It latches into an measurement, manual or aemi- facture, alarm condition, which is then automatic component testing housing. Re-setting is by eddy-current test parameters, quickly implemented. Front and transport, momentary interruption of the the device incorporates two ad-control panels open upwards or Chubb. mains inpul.

Testing is possible without smoke. By applying a magnet at an indicated place a reed switch can be operated which lights a test LED in the enclosure, in turn illuminating the detection photocell.

2% ios deep. More from Temple Road, Leicester LE5 4JF

The device measures 6 ins by

## NEW CONCEPTS in thickness suppliers and at the goods in-

corporated in a pocket-sized

staodard calipers.

increasing needs throughout manufacturing industries for routine inspection at all stages of the production process, especially machining, assembly, test and installation or commissioning. These requirements arise from hoth current and anticipated legislation governing product liability and safety.

The instrument is expected play an important role in materials inspection by steel stockholders and other metals 67671.

# Temperature indicator

DIGITAL temperature indicator range -100 to +200C (platito provide high accuracy temnum) and ±0.1C within the perature measurement under range any ambient conditions bas been introduced by Aughton Instruments, Kirkby. Called the ATI-100 it is avail-

able in four types to suit many industrial and laboratory appli-cations. Temperature display is either 31 digit 0.3 in LED or 0.4 in LCD depending on the type.
The indicator has four-wire platinum resistance or nickel reaistance sensors through which a constant current of less

-70 to +170C (nickel). The instrument is factory-set to comply with the sensor curve to within a maximum error of 0.05C over the whole calibrated Calibration to National Stan-

dards can be effected by substi-

of four-wire standards, for example, 0C=100 ohms, 100C=138.5 ohms, which also have calibration certificates. Aughton Instruments, Wood-

than 1mA is maintained. Estate Kirkby, Liverpool L33 Accuracy is ±0.1C within the 7UZ. 051 548 6060.

# Will detect the flaws

sumption is 35 mA (at 75 Wells-Krantkramer under the matching to all eddy current in New York City this year. description Defectomat F 2.825. differential or absolute probe

> justable monitors. Standard specification includes chart and as renuired. tape recorder outputs and a instrumentation.

optional storage facility. Test variable from 100 Hz to 1MHz, bronk Road, Minworth, Suttnn contractor. Testing speeds are within the Coldfield, West Midlands B76 range 0.2 mm/s up to 100 m/s, SAY (021-351 3151).

incorporating an 310 mm high x 570 mm deep. frequencies are continuously Vale Industrial Estate, May- Data Systems

S-100 72 Stockholm/Sweden.

Rapid, sudden fluctuations in

(EMI) has increased since the puter analysis, and plays an important role in the overall programme.

Martiesham started using a more powerful unit (SE portable SES4 analogue instrumental programme.

This subsequent continues a generated from data received from the NOAA5 weater satellite and are recorded continues to be provided to be

varying environmental conditions.

FOR USE in conjunction with and 60 seconds for personnel to its Helios range of fire alarm clear the area before gas is equipment, Bowcom Electronics (83 High Street, Esher, Surrey KT10 9QA, 0372 66348) has

> Employing carbon dioxide or halon gas extinguisbants, the systems are intended primarily for the protection of high value installations auch as computer centres, or unattended electrical or electronic equipment which could present a serious fire hazard if a fauit condition developed.

hailstorms, etc. can be a fixed pipe distribution net-significant, and it is one of the work, bas a release control a fixed pipe distribution netmain areas of interest, to see, which is connected to a multizone fire alarm control panel, in turo monitoring smoke or beat detectors.

However, to avoid gas dis- an electrochemical cell specific tions) are recurded by the SE charge by a false alarm, two to the gas in question. An labs, 84 machine, which is separate detectors have to be audible alarm sounds if the gas British designed and manu- triggered and the srea to be concentration exceeds a pre-set

protected is monitored by two-zone circuits for this purpose. Two stage alarm is also employed: after the second audible alarm bas sounded a delay timer allows ketween 10

A COMPREHENSIVE collection of phosgene, hydrogen cyanide, tion/time profile. sulphide on a personal basis has been introduced by MDA Sees smoke Scientific (UK), Ferndown Industrial Estate, 86, Cobbam A bank of gas cylinders, with Road, Wimborne, Dorset BH21 7PQ (0202 872106).

Gent will give an early response to both smouldering and flaming fires and incorporates verification circuits to minimise false alarms.

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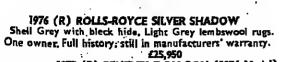


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t 678 (1) 498 SL Silver/blue cloth lipluss. 7.000 miles 1979 530 St. Choice Silver Green) bluck cloth bi rediparchment cloth, eath with per high spec. Del. mileage. 1978 Series 380 SL. Whitaibhie ciclin, alloy beets, doted glass, rudiojstwes, 8000 miles. 1979 450 SE. Choice Icon gold.
Astral silver for Mugnetile bluo, ir con., eldc. Sun roof, alko wheels, radio livero, ext. Octivery mileson, 523,150.
1979 450 SE. Astral silvertolack hida, eloc. \$root Del. mileson, 523,150.
1977 150 SE. Astral silvertolack hida, eloc. \$root Del. mileson, 523,850.
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ment cloth, elec. sirodi, radio stereo, etc. 980 miles. Etc. 256. 1978 (7) 150 SE Milan brown parchment cloth, alec. sun root, linted glass, truise control, etc. 5,000 miles. Etc. 555 1975 P 350 SE Metalist Bluefolur cloth, elec. aroof, etc. 31,000 miles. £10,850.

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Regency Bronze, Dark Brown leather. Speedometer reading 24,000 miles.

reading 24,000 miles. 1976 Fcb. Rolls-Royce Sliver Shadow Saloon. Pewter, Green leather. Speedometer reading 39,500. - m; 28. 19.6 Jan. Rolls-Royce Silver Shadow Saloon. Walnut, Beige leather. Speedometer reading 41,000

Wainut, Beige leather. Speedometer reading 41 unmiles.

1973 May Rells-Royce Silver Shadow Saloon. Black: over Welnut, Black leether, electric sliding sucroof. Speedometer reading 38,600 miles.

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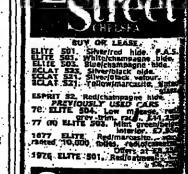
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to UK residents by banks in the UK at February 21, 1979; as Table

	£m	ADVA	MCES TO U	I IDE BANK C RESIDENTS- pf which	of Eogla	and Qua	rierly B	FINANCI.		·
I condon clearing banks Spottish clearing banks	1978 Nov. 15 1979 Feb. 21 1978 Nov. 15 1979 Feb. 21	7etal 18,625 19,807 2,529 2,589	1º sterlin 17,039 18,238 2,215 2,287	in foreign Correncia 1,587 1,571		cial in 69 26 68	1,645 1,645 1,601 154 180	hire-pure finance houses 149 157 38	e Propert	
Northern Ireland banks	1978 Nov. 15 1979 Feb. 21 1978 Nov. 15	622 661 45,445	619 659 34,052	2	1	22 22 ·	20 20 5,120	3 3 1.154	13 13 2,223	5 6 4,839
of which in sterling. Changes:	1979 Feb. 21 1978 Nov. 15 1979 Feb. 21	47,508 34,052 36,225	36,225	11,284	8,38 5,23 5,38	50 20	5,382	1,263 1,129 1,240	2,227 1,838 1,848	4,861 2,253 2,295
in foreign currencies adjusted	Non MO /Fol mo	+1,020 +2,173			+11 +18			+ 18 +111	-58 +10	+154 + 42
for exchange rate effects;	1978 Aug./Nov. Nov. 78/Feb. 79	+ 266 + 100				28 7	·	- 26 - 1	÷ 17	+ 72 + 27
London clearing banks	1979 Teh 21	Total marra- factoring 4,890 5,404	of which in	Food, drink Chemic and and sill obacco industri 729 534 726 554	ed manu- es facture 302	Electrica		Ship- building 1 402 404	Vehicles doil 208 45	her Other d many- log lacturing
Scottish clearing banks	1979 Feb. 21	597 606 111 114	566 576 110 113	113 52 108 52 26 —		29 32	101 100 39	137 140	9 17	66 76 66 78 20 25
of which in sterling	1978 Nov. 15 1979 Feb. 21 1978 Nov. 15 1979 Feb. 21	11,808 12,721 9,597 10,442	9,597 1 10,442 2	.982 2.286 .098 2,359 .622 1,505 .718 1.562	762 617	896 993 753	39 2,062 2,275 1,789	638 624 565	578 84 618 91 546 71	7 2.074 8 1.481
Changes:		10,111	1	بدالم ليدار	0/0	818	2,008	568	589 7	5 1,684

in foreign currencies adjusted	Nov. 78/Feb. 79	+111 +845		+ 2 +1	191 +31 57 +51
for exchange rate effects§	1978 Aug./Nov. Nov.78/Feb.79	+ 63 + 94		-31 + +24 +	11 - 1 17 +16
		Total other production	of which in sterling	Agriculture, Tortaky and Sching	Mising and and quarrying
London elearing banks	1978 Nov. 15 1979 Feb. 21	2,579 - <b>2,648</b>	2,534 2,604	1,401 1,394	155 156
Scottish dearing banks	1978 Nov. 15 1979 Feb. 21	515 540	455 481	347 378	72 63
	1978 Nov. 15- 1979 Feb. 21	159 173	159 173	111 121	4
All banks	1978 Nov. 15 1979 Feb. 21	5,122 5,204	4,180	1,952 1,991	1,453 1,429
	1978 Nov. 15 1979 Feb. 21	4.180 4.310		1,945 1,982	628 651
Changes:		-,		_,	
	1978 Aug./Nov. Nov.78/Feb.79	+163 +130		+ 113 + 37	+23
in foreign currencles adjusted		• • •			

for exchange rate effects ... 1978 Aug./Nov.

Amount outstanding

٠	AB DIBKS	19/9	Feb. 15	• •	3,523	7,181	1.045	1.481	521	717 1,675	541	678 7	66 1.481
ï			May 17	••	10,098	7.833	1,770	1.845	513	742 1.725	573		12 1.556
	and the control of th		Aug. 18		10,555	8,421	1.781			792 T.823	604		9 1.669
•		Α	Nam 15		10,649	8,458	1.768						
		4000	Nov. 15							1,911	621		7 1,657
		1979	Feb. 21	•	: 11,436	9,174	1,840	2,160	593	339 2,114	620	470 83	2 1,897
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		4.5		* •	Total services	steri		ed communi-	and nations	government	Retall Distribution	Diber	scientisc and
	London clearing banks	1000	Nov. 15		5,173	4.3		410	704				
	Touch creating banks									.66	1,124	971	1,897
	$\Omega$		Feb. 21		5,652	4.8		466	637	77	<b>L</b> 143	1,951	2,278
	Scottisb clearing banks	1978	Nov. 15	100	732	. 6	23	97	81	. 35	112	. 114	294
		1979	Feb. 21		760	6	56	96	91	36	113	120	304
	Northern Ireland bankst		Nov. 15	- 1.	193		93		24	c	76	29	
	Thortmerm Tresand Dankst.									9			58
		T2(8.	Feb 21	٠.	205		<b>95</b>		27	. 9	76	28	66
	All banks	1978	Nov. 15	·	14.452	9,2	18 .	1,621	2,883	78 <del>4</del>	1,793	3,579	3,792
1		1979	Feb. 21		15,205	10,0	73	1.686	2,757	881	1.820	3,730	4,352
	of which in sterling		Nov. 15		9,218	,_	•	872	214	544	1.741	2,344	3.503
	and which in sterring												
	11.2	1979	Feb. 21.		10,073			985	191	643	1.773	2,460	4,021
	Changes:			. :									
	in sterling	1978	Aug./No	T.	+367			+ 25	+ 92	+38	+136	- 14	+ 89
		Nov.	78/Feb.	79	÷+853			+113	- 23	+99	+ 32	+116	+518
	in foreign currencies adjusted				V								
١.	for exchange rate effects	1070	Ang /No		+188			- 87	+158	-13	- 1	+ 96	+ 16
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	Nov.78/Feb.79 + 11		+4 -47+	
The lading lending under specia	il schemes for domestic shipbuildir	g. The analysis provided by	Northern Ireland banks	differs slightly
from other hanks. Chemicals an	d allied industries are included and	Stinguisbably in "Other manuf	acturios ": Metal manufac	ture. Electrical
ngineering, Shipbuilding and V	ehicles in "Other engineering an	d metal goods "; and Transport	and communications in "	Public utilities
ad-national government." A Th	e figures exclude as far as possible	the effect of changes to ex	coange rates on the ste	riiog value of
lyances in foreign currencies.				

**50YEARS EXPERIENCE IN** 

HARTWELLS

VEHICLE SUPPLIED!

**LEGAL NOTICES** 

Ha. 00872 of 1979 In the HIGH COURT OF JUSTICE Chancery Division Cempanies Court. the Matter of LIOEN PLASTICS LIMITED and in the Matter of The Cempanies Act, 1848.

450 SLC. White, red er, s1r cond., 20,000 £17,250. 450 SLC Metallic star root, air cond-versels, £14.250 499 GT Auto. Shie Ribot Cream Hide. Sive Punets Rear Air.

ited Theory of the Call of the 1978 280 E. Ivory, tobacco chill, sourcost, dr. cood, 17,000 miles, £11,750. 1976 280 E. W123. Dark blue, perchanent cloth, elec-fric. windows, suo root, slloy wheels, radio cassette. \$9.350. \$9.350 \$972 - 250. White, black marrier, sur root, timed slass, radio, \$8,950. 

Ш

November 2400. manual gearbox.

1976 306D Merceles Astabate Motorbone, July 170 and Arldge shower, 19,000 miles, \$7,500.

All cars are fitted with lautomacic transmission and P.A.S. unless otherwise stated and are covered by our 12 month

TEL WALTON CN-THAMES

BUY OR LEASE

THE NEW 1979

ANCIA BETA

We have a wide choice of the Gamma and now 1979 Beta models in stock and would be delighted to arrange a demonstration at a place and time convenient to you. If you are not in a position to leade we can offenge low interest by terms.

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**ROLLS ROYCE** 

**SHADOW 4** 

Delivery August 1979. Choose

your own colour and specifica-

Write-Box —7—? Financial Times, 10, Cannon Street, ECAP 4BY

ROLLS ROYCE

CORNICHIE March 1978 model. Le Mana blue, Jark blue, urphoistery and vinyi roof. Dnly- 3,900 miles. Chouffeur-driven three prints of the control of the

Jalephone: 01-748 1779

tion. Offers.

28811

Mon-Fri/8.30-7 Sat/Sun 10-4 Tel: 0533 374444 Telex 34274 ROLLS ROYCE

SILVER SHADOW Registered October 76. 19,000 miles. Charifeur-driven, Jurquoise blue, insculare. £26,000. No dealere, o wasters, please TEL: 051-639 7771 office hours

3 NEW PORSCHE 911SC SPORTS FOR SALE

Choice of colours TELEPHONE 0664 67541

SAVE £1200.00! pregistered and offered at

Tel: Clacton on Sea 22422

(9-6 weekdays) MW 528 Automatic (R). 25,000 recorder miles. Mett grev. In superb coodition with this BMW directives between cooding terrical schools. Include Radio, 5tereo, Societars. Inited Windows, Tow-bar, Child set. This is a company director's cur that has been carefully maintained ihroughout at the 56,550 to view. Telephone 01-8762948.

1976 RARE JENSEN GT. Registration
MWW222P. Finished in metalik bronze.
electric sun rool and windows, électronic ignétion, fitted radiojstreon,
36,000 miles. Company maintained.
54,000 Phone Masham 332, business
ours. ANGE ROVERS 78. Del. mileage PAS. Tants £10,995.00. Tarbo charging and automatia goar box: 01-247 8341-WANTED. NEW SHADOW II. Delivery Milespe only. Private. No dealers. Epsom (03727) 24925. RANGE ROVER. Delivery initege. Postering. option pack. £11.500. offers. Phone 0704-77562.

CITROEM CX Palles C-matic 1978 Jan. 15,000 immac. Met. bire £5.500. Morts. 021-705-8166. DAIMLER XJ wanted, 1975-78, 1 owner only, Salding, Taverham, Norwich, Tel. 0605 967-606 Evenings.

FOREIGN HOTELS

**CLUBS** 

No. 00842 of 1979

In the HIGH COURT OF JUSTICE Chancery Oivision Companies Court. In the Matter of MEREWORTH ESTATES LIMITED and in the Matter of The Companies Act. 1948.

NOTICE IS HEREBY GIVEN, their a Petition for the Winding up of the above-named Company by the High Court of Justice was on the 1974 day of Merch 1979, presented to the soid Court by BARCLAYS BANK LIMITED whose registered office is at 64 Lombard Street, London, E.C.3, and their the soid Petition is directed to be heard before the Court string at the Royal Courts of Justice, Strand, London WCAA 211, on the 30th day of April 1979, and any creditor or contributory of the said Company desirous to sopport or oppose the making of on Order on the ceid Petition may soper at the time of hearing, in person or by his counsel, for their purpose: Band a copy of the Petition will be furnished by the undersigned 10 any creditor or sopributory of the said Company requiring such copy on payment of the regulated Charpe lot the same.

OURRANT PIESSE.
73 Choopsido.

London ECZV SER.
Ref: GFM/DSB/BKM, 3442.

Soficitors for the Petitioner.

No. 00842 ol 1579

Ref: GFM/DSB/BKH, 3442.

Solicitors fer the Peritioners.

NOTE.—Any person who intendo to eppear on the hearing of the seid Petition must serve on, or send by post to, the above-nomed notice in writing of his intention so to do. The notice must state the name and address of the person, or, it is firm the name and eddress of the firm and must be alonged by the person or firm, of his or thoir ediction (if any) and must be served, or, if posted, must be pent be sent by post in sufficient time to reach the above-nemed not later than four o'clock in the effemeen of the 27th day of April 1979.

HOTICE IS HEREBY GIVEN that Mohamma i Alzai Javeld of 229 Gt. Pertland Street. London Wilk 3ND is applying to the Home Secretary ler naturalisation and that any person who knews any reason why naturalisation about not be granted should send a written end signed patternent of the lacts to the Unior Socrarry of State. Heme Office (Hationality Oividien), Luner House, Wellcoley Roed, Craydon CRS 28Y.

WE INVITE

OFFERS ON

78 T Reg. Porsche 911 5C Sport pack, 4.000 miles

77 R Reg. Mercedes 350 SE Electric roof & windows Alloys. 14,000 miles

76 P Reg. Mercedes 450 SLC

Electric roof & alloys, 25,000 m. PHONE COOPER CARS

(0533) 374444

**COMPANY NOTICES** 

end in the Matter of The Cembanies Act, 1948.

HOTICE IS HEREBY GIVEN, that a Patition for the Winding up of the obeve-nented Company, by the High Court of Justice was on the 2st day of Merch 1979, organized to the said Court by BEGG & CO TERMO-PLASTICS LIMITED whose rejeated office is situate at 37, St. Magazet's Street, Canserbury, Kent, and that the said Petrion is directed to be heard before the Court sitting at the Revall Courts of Justice, Strand, Lonola WCZA ZIL, on the 30th Juy of April 1979, and any creditor or contributory of the said Company destroys to eugport ar oppose the making of an Order on the said Petrition may appear at the time of hopring, in person or by his couces! Lor that purpose; and a copy of the Petrition will be furnished by the undersigned te any, creditor or contributory of the said Company requiring such cepy on payment of the regulated sharps for the same.

HERBERT OPPEHHEIMER.

MATHTAN & VANDYR.

20, Coothall Avenue.

Londen ECZR JH.

Ref: 11/SRO. 78 88145.

Solleitors for the Petroner. IPS INDUSTRIEVERPACKUNGS-UND SERVICE AKTIENGESELLSCHAFT HOTICE TO HOLDERS OF BEARER SHARES OF DMSD NOMINAL VALUE Exchange.

Accordance must be received by 3 p.m on 20th Arril 1979. Shareholders are therefore advised to make immediate contact with:
VICKERS DA COSTA LIMITED.

Reference RHWY.

Ref: TI/SRO. 78 66148.

Solilators for the Perbioner.

NOTE.—Any person who intends to sppear on the hearing of the said Petition must be seen and inetics in writing of his intention so to 00. The notice must sake the name end address of the person, er, if a firm the name and address of the firm and must be signed by the person of firm, or his or their colletter (if any one must be served, or, if posted, must be sent be sent by post in sufficient firm to reach the show-nesmed net taret than lour o'clock in the elembon of the 27th day of April 1979. CANADIAN PACIFIC LIMITED COMPANY 5% DESENTURE STOCK In preparation for the payment of the han-yearly interest payable on June 1 next, the Debendura Stack Transfer Books will be closed in 3.30 p.m. on May 3 and will be re-opened on June 2.

(W. E. REEVE, Deputy Secretary, So Flusbury Square, London ECAA 1DD, April 2, 1979.

TRAVEL

GENEVA—Delly Jet Rights from Gatwick with dritish Caledonian from £50 return. CPT. 01-351 2191.

BASIE—Foor Rights weekly. £55 return. CPT. 01-351 2191.
SKI EASTER WEEKEND — 12/4-18/4.
Cournayour from £69. Aprilez from £110. [ac. Rights, Cali CPT, 01-351 2191.

DIAMONDS FOR INVESTMENT Diamond Selection Limited offer local-cat and polished Olamonds as one of the fingst and cafest alternative invest-ments. The following is a cross section of prices from their recommended ments, The tonor their of prices from their range as at 1st April,

2700/800180

Note: Olamonds in the range we recommend for investment have appreciated an average of 650 per cent since 1st July, 1969.

DSL grade is made up as follows:—
Colour/clarity/carat
e.g. 120 4 15761
e. Petersham House, 57a Hatton Garden, London EC1N SJD. Tel. 01-665 3045.

The following is a record of the priocipal business and fioaocial I Sr. 12. Spencer, DAC Country Club. Park Epson, Sorrey, 12 ing. 175. West George St engagements during the week. The Board meetings are mainly for the purpose of considering divideods and official indications are not always available whether divideods concerned are interims or finals. The sub-divisions shown below are based mainly on last

Woo combers 7 typePf. 2.825pc. 8pcPf. 2 fact Ran0 Cone. Gramelan Hides. GKN Laddroke Laddroke Laddroke Laddroke Laddroke JF. J. C8 typePf. 23.5 Fereburch St. Morphal Cruckle Morphal Cruckle St. 21.3d St. Fereburch St. St. 21.3d Laddroke Laddroke Laddroke JF. J. C8 London St. C8 Lon X200x 63 Cts

TOMPROW

CCMPANY MEETINGS—
Betument Props. Winchester House, 100.
Did Brase Street EC, 2.30

Grindlavs Holzings, 23. Fenougen St.
EC 11.30

Marchwell, Grosvenor Hosel, Crester, 11

Pating inv. Tst. 3. Albyn Place, Ecloeverh 12. DIVIDEND & INTEREST PAYMENTS-SALTING EDGS.
SALTING EDGS.
APPLICATION OF THE ST.
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BAY feed 4:50: 012p

Baker Parker, 7:01p

Berwick Timpo 0 beg

Bermin Qualicos 1:476p

Biumodil-Bermoglar: 2:00p

Boardman «K. Ou. 51-pc/l. 1.925p:

Brain Tapelle. 2:45pc

Bistool Waterwarks 7s.pt. 1.925p:

Bistool Waterwarks 7s.pt. 1.923 2:3760

Bistool Waterwarks 7s.pt. 1.923 2:3760

Bistool Waterwarks 7s.pt. 1.923pc

Caravans 1:th. 2.95pc

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Midland Industries 0.8316940
Net. Westminster 8t. 7.15037p
Plastic Constructions 1.56p
Tardomorae 5ccared Growth Tt. 0.8125p
Victor Products (Wallsent) 10pcH.
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415

BOARD MEETINGS-

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cost-effective way of

more efficiently and

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maintaining our mailing list

there is a bonus" said Mr

Network also owns a printing

company, and for big mailings

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VALET PROBLES I WATER THE 4.920PK WEDNESDAY, APRIL 4
CDMPARY MEETINGS THE PROBLES ST. Marvers St. W 12

Pounter M F. E.C. 12.3d
18°C GPS. Orattors-man-Aven, Warwickstire, 3.3d
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BDARD METINGS—
Finals:
Brians (Prince Prince Place)
Hillori Footwear
Jack Williams
Lyon and Lyon
Papenic Assurance
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Certicl Inv Tst. 30. 4pcPf. 1.4pc

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Estrics Property Inv. 1.5a

Guibrie Cprau. 60

Jarvis (J.) a.00

Jentipue 1.029850

Jos Holdes. 0.9750

Longdile Universal 3.5d200

MFI Furniture 2.1860

Midlang Bank 9.04:668

Nuswith Industries 1 0.2830

Poscettish Western Inv. 1.050

Scottish Western Inv. 1.050

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Spencer Clark Metal 1.43

Signibert and Fit 2.630

Tate and Lole "App (D. a 30)0178). Drd.

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Tyneside Inv. 55.2pt. 1.75ac. 0a, 2.03p

Viners 0.56

Wasten Finance 1.6781259

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Three-der No. 75t. Scr.Pt. 1.7Sac. 0a, 2.03g
Three-der Financo 1,6781259
Warren Financo 1,6781259
THURSDAY, APRIL 5
COMPANY MEETINGS—
Couch Oberek). Great Nethern Hotel
Peterbarough. 12
Ladies Prite Duterwar 145 St. Saviour's
Road, Leicester, 11.45
Law Gebriure Corp., Evates Mouse. 66,
Gresham St., E.C., 11.30
Stawik Forbes Bland Payne, Sedgrick
Forbes House, 13, Aldpate High St., E.C.,
12

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OIVIDEND & INTEREST PAYMENTS
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London County 5at 1950-63 2:200
London 4:25P
M and G Australasian and Gen. Fd. Int.
6.420
Makin (U ard J.) Paper Mills 0.4840
Metropolitan Water Board Grand Junction
My.W. 30c05. 1:20t. W. Middlesex W.W.
20c05. 1:20t. Upp. W. Middlesex W.W.
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Securitor Grp. Ord A 1.37880
Security Services Ord. A 2.303p
Stacklash Ord. 0.85p
Sirong and Fisher 2.020
Thermal Syndoxics 4g
Tressury La. 2002-06 4pc 3pc 112pc
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SATURDAY, APRIL 7
OIVIDEND & INTEREST PAYMENTS—
Agricultural Meripage Corp. Var. Rate
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FRIDAY, APRIL 6
Bris. American and Gen. Tsi., 20. Fendurch Street, 8c., 11,30
Langan inv. Tsi., 00-00, Marsham Street, 8C., SW 10.30
ROAPD MEETINGS—Finals: Sotheby's to auction Viking bracelet

1.000-YEAR-OLD Viking coln. while oo booeymoon, by's, Belgravia, on June 5.

bracelet found on a beach at searching for shells.

Paigoton, Devon, is expected to fetch £3,000 in auction at Sothe-inquest at Torquay decided last the paigoton on June 5 month that it was Mrs. Creasey It was discovered by Mrs. May property. She took it to Britis Creasey, aged 29. of Coult Museum officials who advise Aveoue, North Hykeham, Linher to go to Sotheby's.

Architecture medal for Eames

Architecture has been awarded pays tribute to the partnership to the office of Charles and Ray record of "ionovation and exe-Eames, the American design partnership begun to 1941 by architecture, furoiture design

THE Royal Gold Medal for Architects said that the citatilences in such diverse fields Charles Eames, who died last and, more recently, communication through the medium of films, graphics and exhibitions."

To the Holders of

General Cable International N.V.

Guaranteed Floating Rate Loan Notes 1980

In accordance with the provisions of the above Notes, Irving Trust Company, as Fiscal Agent, has determined the Rate of Interest payable with respect to Coupon No. 18 on Friday, September 28, 1979 to be Eleven and Seven-eighths per cent (1138%) per annum.

April 2, 1979

Irving Trust Company, · Fiscal Agent

"If you address 10,000 letters speed and cost count. The 'Monotype 80' was the answer."

So says John A G Shearsmith, of 10,000 letters or more the managing director of Network, letters are printed offset litho. the exhibition and conference "Now we can personalise every organisers of Buckingham. printed letter or, for smaller Network organises six mailings, use the 'Monotype' 80 conferences and exhibitions in to process the letters. We chose Britain and overseas, Its list of the 'Monotype' 80 after asking exhibitors, potential exhibitors, 67 companies to solve our and other contracts run to problems - Monotype 40,000 names and addresses Communications had the and updating them, with 50-100 answer." changes a day, was a problem with conventional addressing Mr Shearsmith, with a staff of equipment. "We bought the 'Monotype' 80 Word Processing System purely as a

eight at Network, and an office in Germany, plans expansion in Europe and the Far East. "This means a growing mailing list and more conferences and exhibitions. Network keeps separate discs for each event. and as our lists extend the 'Monotype' 80 will cope, and still provide the bonus of powerful word processing" he explained.

"We are not a big company compared with some in our field, but we're the first to tackle mailings this way for conferences and exhibitions. The days of conventional addressing systems are numbered, in my opinion, when a machine can provide so much, so fast and so inexpensively by comparison."

For further information:

Monotype Communications Limited 5-6 Yarmouth Place London W1Y 7DW

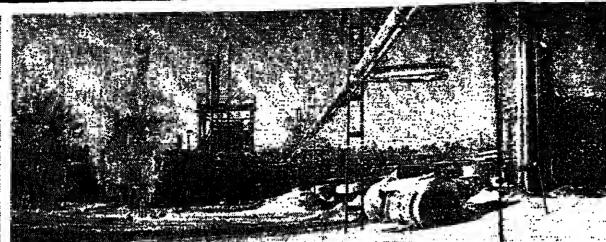
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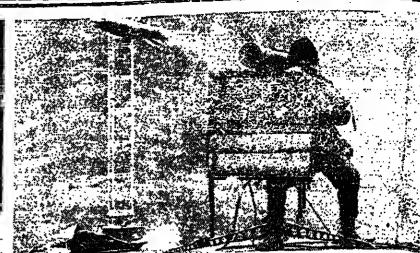
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# THE MANAGEMENT PAGE







illustrate Bofors' expansion into chemicals and its continuing commitment to armaments. Claes-Ulrik Winberg (left)-concentrating his mind on getting the right diversification mix; a spent acid plant (centre) and

Bofors sets its sights on a

WHAT DOES a world-renowned arms manufacturer based in a neutral country do, when its domestic market threatens to shrink and public opinion strongly favours disarmament and curbs on trading in weapoos? Exploit its technological know-how in less contro-versial fields and diversify The quickly, is the obvious response.

But Bofors has been in and out of "civil" production for the past century or so and in the view of Claes-Ulrik Winberg. managing director of the Swedish armaments group, diversification is the SIP on answer. Since he took over in 1973 he has eliminated some 20 product groups from the com-pany's range—including some of its steel interests—but he feels that Bofors is still ton diversi-

It does not pay, he argues in contradiction of much previous Bofors' thinking, to move into products which the company's workshops have no experience of manufacturing and which call for a widely different marketing and financing approach. This philosophy is born of experience. The ordnonce division has continued to be the main source of Bofors' profits, whereas several attempt; at diversificaeve not turned out well.

Bofors' strength has lain in its engineering and technical skills. It has been orientated to product development rather than to marketing. Its main customers have been greet. ments and defence procurement departments and it has not been gegred to meet the demands of variegated industrial market. The nolicy evolved by Mr. Winherg, therefore, has been to develop profitable, new operations out of the group's existing skills aimed at a product market of which it already has experience. This is why Bofors has decided to concentrate on chemirals as a second piller along the

ackling the U.S. market.

Olof Norberg, currently has a turnover of around Skr 600m (£68m, \$138m) which is less than a quarter of total group sales and half the ordnance division's turnover. But its operating profit has grown from Skr 5m in 1974 to Skr 43m last

The link with armaments comes through explosives and propellants. In producing the ammunition for its weapons and the fuels for its missiles Bofors had to develop techniques for the safe treatment of explosives and arid concentrations. Bofors Nobel aims to cash in on these techniques by oroviding speciathe chemical and pharmaceutical

### Dangerous

Parallel with its explosives production Bofors has specia-lised in nitration and nitric acid oxidation processes. More reproduction Bofors has specialised in nitration and nitric acid oxidation processes. More recently, to meet new polintion and environmental requirements it has had to devide ments, it has had to develop techniques for handling the "spent acids" left by the processes. As a result it is now able to take over for other companies the processing of their raw materials and the handling from military customers. A of dangerous wastes, which is third unit, Nobel Chematur, often a costly and embarrassing which has been operating since everhead for them.

Pharmacentical companies, in particular, want to put their money into research and development and into marketing. For an individual company the nitration processing of its chemicals is a small volume but difficult operation with potent 200m programme was suiopted, by no means defeatist, but steps tial pollution problems. Bofors It is almost complete. Half or have already been taken to Nobel offers to produce these more of the investment has gone reduce the group's exposure on chemicals at its specialised into environmental improve the loss-making steel side and plants, saving its customers the

new diversification target nort overheads are not a problem because the business is in
specialised, not hulk, chemicals,
but to tap the U.S. market
Bofors Ninhel acquired a small
company, Lakeway Chemicals

Inc. Michigan, in October 1977.

It is now in the process of extending its technology to Lakeway. A spent acid plant will come on stream in the autumn and a new nitration plant should provide extra capacity next year. The possibil-10 per cent annual volume growth thereafter.

The Swedish-based Nohel Kemi remains the largest unit in Bofors Nobel with 40 per cent of its contracts still coming the 1930s as a chemical engineering contractor, mostly in designing explosives factories, can also benefit from the division's new venture.

The decision to excand un the chemicals side was taken in future of the ordnance nivision 1976, when a three-year SKr at Karlskoga headquarters are ments and another large chunk on Bofors-Nohab, the diesel

year, Bofors currently has contions. The profit criterion is

missile tunes on the defence the future on the arms side equipment sida. After taking makes it all the more imperative over the plastics operation of for the management to pare the Trelleborg company last away its cash-consuming opera-

### BY WILLIAM DULLFORCE

siderable plastics and some rationalisa-tion is needed. suspects that Mr. Winherg would happily get rid of the tion is needed.

While chemicals are regarded engineering operations. Bofors is in no mood to abandon the profits of its weapons manufac-turing and attitudes towards the

over-capacity in being re-emphasised and one

whole steel business. The ordnanca division furwhile chemicals are regarded as having the greatest growth potential, more than three-quarters of the group's Skr 2.8bn (£320m, \$645m) turnover is still being generated by the ordnance, steel and other than the condition of the properties of the ordnance and propellants supplied by the chemicals division, Bofors' reliance on defence contracts is proportionally rather tracts is proportionally rather larger, Roughly half the group's 14,000 employees work on military contracts. At Karlskoga some 5,500 of the 8,500 employees are directly or in-directly involved in weapons and ammunition production.

Mr. Winherg helieves that the ordnance division has probably reached its maximum size. The cuts in Swedish defence spendplants, saving its customers the investment and the pollution into recovating the entire and turbine company.

Altready has experimence. This is why Bofors has investment and the pollution into recovating the entire and turbine company.

Altready the division sells so is ordinance activities and is largest markets being in the ILS, market.

Bofors Nobel, the chamicals was a second piller along-ide investment and the pollution into recovating the entire and turbine company.

Altready the division sells so is only now that the real expansation of capacity is coming sen of capacity is coming sen of capacity is coming the into recovating the entire and turbine company.

Bofors bas just reported implication for 1278 but as in the percentage of that to maintain the present contracts will have to he previous year the figure hides won. Over the last two years the wide gap between the profit contribution from armaments weapons and ammunitien outling general manager, Pergradually he reduced, posby as much as half.

The prospects for increasing ert sales, it is felt in iskoga, depends more on tical attitudes than on hav-the right products. Recently, foreign affairs committee of Swedish Parliament voted inpusty for a re-examinaof the regulations govern-Swedish weapons exports. e government has also set commission to Investigate opportunities for the armat industry to switch to rative" production. "For-it," Mr. Winherg says tly, "there is no alterna-

fors makes guns and mis-to Swedish specifications in ensure that they are mentally defensive in the This "lock on the attitude to defence

to countries which share in's neutral strategy, and pping countries, whose ments feel the need for Frrent defence. demand for Bofors' e politics of Swedish arms are complex in the . Bofors sells to NATO

counties. Its power-operated L/70 comm gun, the successor to to one which defended Prital in the second world war, main anti-aircraft in many countries'
The third generation, defend. 75, using a proximity d a pre-fragmented shell final stages of comretition with the Swiss Oerliken .S. crder.

D: Ids' portable anti-alreraft

bought hy Norway and is being company.

evaluated by other NATO Bofors' SKr 400m plan for countries. It is being developed the erection of a new drep for for use at night. The 155mm ing plant at its Kilstwerker FH 77 mobile howitzer has also works in a joint venture with

world disarmament against the tradition that the country's nwn defence forces should not rely snlely on foreign suppliers and the knowledge that domestically produced weapons are cheaper. if manufactured in larger series than required by the Swedish forces. In practice Swedish authorities have been fairly pragmatic and Bofors has not heen deterred from planning its export drive.

But the Government and the Defence Procurement Organisa-tion have been keen recently to concentrate domestic arms production, particularly on the missile side. Last year Sweden's two producers established the Saab-Bofors Missile Corporation for joint design, development and production of the next missile generation.

### Military

If Mr. Winberg has to adjust to the political wind for the half of the group involved with military contracts, he is able to take straightforward husiness decisions in tha other half. The steel operation, which has been operating at a loss for three years, has been trimmed, a reconstruction of the drop forging plant is planned and a partner has been found for the diesel engine operation.

Although in the 1870s Bofors was the first company in the world to cast a gun from steel, there is now virtually no link between its steel and armaments sides. In steel it has had two main operations, the production of high-alioy tool and construction steels and a forge producing chiefly heavy lorry crankshafts. The first operation has been exectively dropped from the be- The cobbler bas for siming of this year under an to stick to his last.

missile, the RBS 70, has been agreement with the Uddenholm

attracted foreign attention.

Swedish politicians have to supplied the new press, suffered halance ideals and attitudes to a setback when the Japanese world disarmament against the company withdrew. The new press would substantially enlarge crankshaft output and therefore calls for a larger market. There is probably room for no more than four such presses in Europe; two are already operating and a third is heing considered. The alterna-tives for Bofors are to find arother partner with both finance and market access, to persuad: the Swedish Government to finance a smaller forge or to abandon the whole crankshaft

> From the other loss-making company, Bofors-Nobah, diesel engine production was transferred last year to a new com-pany which Bofors owns jointly with the Finnish Waitsila concern. The idea healind this move was similar to that which prompted the dropping of the tool steel husiness—that it would be hetter off outside the Bofors group. Through the Finnish market and Wartsilä's contacts with the Soviet market the venture, it is hoped, will have the scope to develop new

husiness.

engines.

Bofor's history goes back to the middle of the 17th century when a hammer forge wahuilt at Boda fors (meaning stream), close to its presen Karlskoga headquarters, Alfre Nohel, founder of the Nobe nrizes, took over the comparin 1894, introducing the amm-nition and explosives hasines with its complementing chem-

cals production. After all the twists and diversifications of the intr-vening years the Bofors whith Mr. Winberg is taking into be 1980s remains fundamentaly that of Alfred Nobel, an arnaments and chemicals concen. The cobbler bas found it bst



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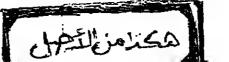
buyers and suppliers.

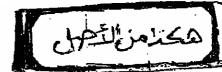
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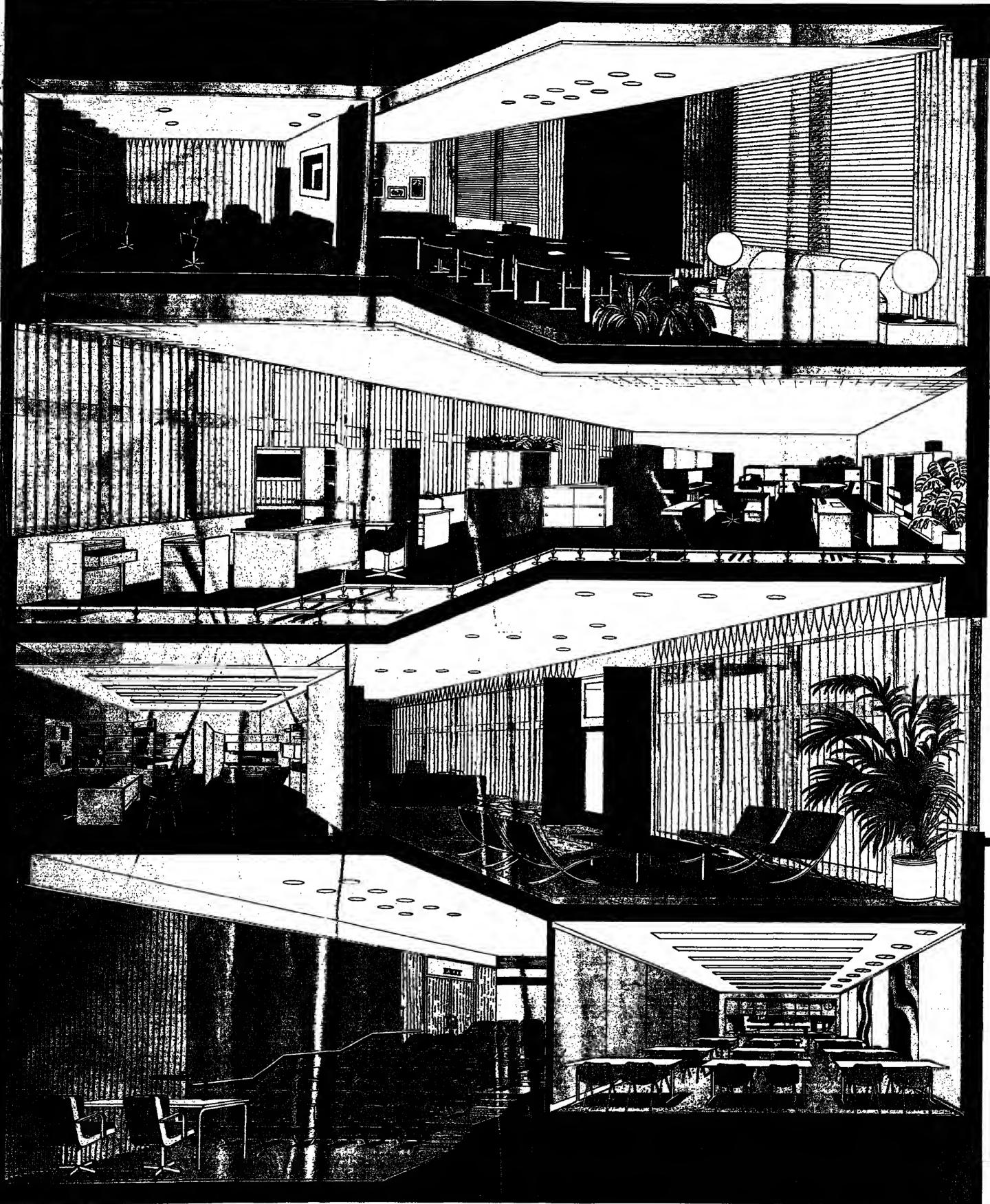


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d

### LOMBARD.

# Case for a new wage formula

BY SAMUEL BRITTAN

minimise the damage caused by But it is not possible to guaranhigh, variable and uncertain rates of inflation - and also the time. All that true indexaas a useful accompaniment to tioo can do is to provids a designed to hring the rates allow negotiations to take place down - has frequently heen in real terms, so that the two made in these columns. But un- sides did not have to guess like peace, indexation is

divisible. The strongest case is on the fiocal side. This is simply to preveot governments from increasing the tax hurden surreptitiously as a result of the auto- return.) matic effects of inflation (fiscal drag) or changing the degree of progression, or shifting the hurden between direct and indirect

### **Business**

The case for wage indexation is a little more problematic because it is more open to ahuse. One unfortunate example was the Heath threshholds which contributed to the wage explosion of 1974-75. Every time one goes to Italy one hears of the scala mobile, which adds cost of living compensation to normal waga settlements and is re-garded by the IMF and other analysts as one of the main obstacles to financial stability.

These are arguments, however, against the wrong sort of wage indexation at the wrong

A plausible formula has heen put forward hy Richard Layard of the London School of Economics in his Colston Research Society annual lecture given last week. His hasic argument is that the search for consensus in relativity adjustments is doomed to failure, but that value of a settlement did not the overall inflation rate.

The principle is that a new settlement should grant a worker a real wage equal to the average level of his earnings over the last 12 months; allowing, in other words, for half the annual inflation rate. From then on wages would be adjusted month hy mooth in line with the retail price index. This would have the subsidiary advantage that after 18 mooths a worker's real wage, and his place in the pecking order, would he independent of his settlement date.

Layard's proposal requires Government elahoration. His formula can better.

THE CASE for indexation to he used to provide a hasic ocale. tee real wages for everyone all fundamental policies measuring rod which would about the general rate of inflation as well as conditions in their own iodustry. (There is analogy here to a dated indexed security, which might sometimes yield a negative real rate of

> There would thus have to he provisions for percentage addi-tions or subtractions to the scale. For instance, when there is a fall in real national disposable income, of the kind that occurred after the oil price explosion in the mid-1970s, there would have to he a percentage deduction from the scale.

### Opinion

It should he possible to write into contracts provisions for referring to outside economic hodies, not necessarily govern-mental, for an opinion on whether conditions bad arisen requiring a change in the hasic scale. But once the cost of living adjustments had taken care of the effects of inflation, the further percentage changes designed to reduce or increase real wages could he very small.

Richard Layard presents this proposal as a form of incomes policy. This is, in my view, the worst way to launch it. Then it would have all the disadvantages of a norm; and every deviation from the scale would have to be negotiated in Downing Street. Wage settlements would once some progress would he made more seem a gift from the hy a formula which ensured at Government, rather than some more seem a gift from the least rough stability, so that the thing that negotiators settled among themselves. Above all, depend on guesswork about the the requirement is for individual size of later settlements, or on experiment rather than a completely uniform approach.

Indeed, all that the Govern-ment needs to do is to stop discouraging indexed agreements, as it has been doing during the pay policy period. Naturally, employers are reluc-tant to offer cost of living compensation on top of a national norm, with some wage drift thrown in for good measure. But without a norm, and with some Independent agreed procedure for adjustments in midcontracts, different forms of indexation could develop a life of their own. The more the Government stays out of it, the better

# Sorting out tenants' families and Rent Acts

courts. Two decisions recently sex inoocently sharing a flat: in the Court of Appeal1, followcomplimentary way) a chain of decisions over the years, is The problem is in essence very simple: who constitutes a memher of the tenant's "family "? Or even simpler, what did Parliament mean by the use of character.
the word "family" in a "To sa succession of Rant Acts?

The problem arises whenever tenant protected by the Rent Acts dies. The law, ever oince the first statutory intervention into leasehold premises during the First World War, has decreed that a member of the tenant's family was entitled to succeed to the protected tenancy. Until recent years the cases in the courts produced simple solutions. A member of the tenant's family had to he someone who was in a publicly recognisable family relationship. such as that provided hy hlood. devoted, were insufficient to

establish a familial nexus. Lord Justice Asquith in 1950 put the matter in an outmoded judicial language. He could see nothing in principle on which it could he said that a man and

continues to pose the court to predicate the same awkward problems for the of two old cronies of the same

"If, on the other hand, the ing, distinguishing or com-relationship iovolves sexual menting on (not always in a relations, it seems to me." he said, "aoomalous that a person decisions over the years, is can acquire a status of bound for the Honse of Lords. irremovability by living or having lived in sin, even if the liaison has not been a mere casual encounter but protracted in time and conclusive in

> "To say of two people masquerading as husband and wife (there heing no children to complicate the picture) that they were members of the same family, seems to me to be an ahuse of the English language." Three years ago, the Court of

Appeal faced the formidahla opposition of such judicial precedent to any different legal attitude to change social habits.‡ A man lived with a woman as if she were his wife for 21 years until he died. They never married and had no children. After his death she remained in the bouse and paid the rent marriage or adoption. Platonic as if she were his widow. The relationships, however close and landlord discovered the true relationship and sought pos-session of the bouse.

not necessarily hind them in from the unions made licit solely the ther's.

LEGISLATION giving tenants woman who were not married 1975, and that if the popular by virtue of the marriage cereand their families protection could be mambers of the same meaning of the word had mony.

Begainst eviction from their family which would not require changed the courts could give effect to that change. Lord judge was: could effect he given benning simply said that the

dcclined to follow it. The majority's approach was to ask the question, what would the doctrine of indicial precethe aoswer be to the question. dent? The two judges in the who is the "member of the majority thought that It would

earlier decision was wrong and and consequent change in the scope of a common English word, without doing violence to

### THE WEEK IN THE COURTS BY JUSTIMIAN

tenant's family" according to be induly legalistic to adhere to understanding of the ordinary man. It was undeniable thet a social revolution had decision was hased had so taken place in the last 25 years radically altered. If language in the attitude to illicit unions. can More and more couples are declining today to go through a ceremony of marriage hut still live together, which for all inshould not continue to govern the eafter.

If Helby r Rofferty the tents and purposes has the hailmarks of the matrimonial

Any social stigma that did attach to such unions has lessened. if not altogether The inaccurate, disappeared. but traditionally Two members of the Court husband is used to describe " common wriggled out of the earlier precedent by saying that what constituted the family in 1950 did stituted the family in 1950 did such unions indistinguishable

precedent when the social situsupon which the earlier change its meaning to acord with changing social conditions, then a decision on the mening of that word in a state before such change

Helby v Rofferty1 the andant lived with a woman vasibe statutory tenant, from 1977 until 1977 when she died expressive transcally. They did not marry law wife and had no children. They to describe shared the expenses of their join home, going out together in a way that showed that each of their lives was bound up with

when she became would such that they regarded thembe expected to do. At no time selves (as did other who knew did she pretend that she was a them) as aunt and nephew. She married woman by using his died in 1976, whereupon he conname or hy giving any hint to tinued to reside in the flat and any person that they were a claimed to he her successor to married couple.

ing concluded that she had not married hecause she wanted to retain her independence and freedom to withdraw from the relationship without the awkwardness of having to untie the matrimonial knot, held that the relationship was not oo permaneot and stable as to justify the view that they were mem-hers of a single family. And the Court of Appeal agreed.

It distinguished the 1975 case by saying that the stability and the permanence of the relationship was the key issue, that that was a matter of fact for tha trial judge and his conclusion could not be upset.

If that case is virtually distinguishable from the 1975 case. the second case poses even more awkward questions, since the individuals could not even claim that their relationship simulated matrimony. In 1957 a young man aged 24 formed a relationship with a widow of 75, and a year thereafter lived with her in a flat of which she was the tenant. The widow paid the rent hnt other expenses were shared, naither being financially dependent on the other.

the statutory tenancy. Again The county court judge, havsay that they were members of the same family.

There is a strong suggestion in the judgments that, apart from blood ties, the only other relationships established by law, namely marriage and adoption can qualify. Our law does not recognise any adoption of adults, only of children. One the relationship is other than a legal one or hy blood, it hecomes inpossible even to exclude the mythical "two old cronies sharing a house.".

If the family encompasses memhers of it who are related in a social and not merely a legal sense, then the homosexual couple (male or leshian) may also qualify as a protected tenant if and when the parmer dies. One way or another the House of Lords is facing some tricky problems of a socio-legal nature. The result of its dell-herations will be intriguing in more than one sense.

1 [1979] I W.L.R. 3 and 13. Gammans v Ekins [1950] 2 K.B. 328.

Dyson Holdings Lid v Fox [1976] Q.B. 503.

# National course needs scrutiny

WITH ONLY seven of the 34 starters for the Grand National having completed the course, and riderless animals creating havoc at the Chair, the time has surely come for a close inspection of the Natonal course and its fences.

I have little doubt that a gap should have been left in the

### RACING

BY DOMINIC WIGAN

temporary running rail, erected on the first circuit hetween tha 14th fence and the Chair, for footed. had there been B filter there for loose animals to run out, the ners came to grief through heing Chair would undoubtedly not have claimed nine victims.

Champ.

Sunshine. 11.35 News and Weather for Northern Ireland.

There seems little question that tha three or four loose animals who created the worst turmoil at a National fence since the race ground to a com-plete standstill at the 22rd in Foinavon's year of 1967 would have heen only too pleased to opt out of proceedings had a filter heen open to them.
As it was, they met the Chair

Bt varying angles and with varying enthusiasm just in front of the leaders. Within a second or two the whole complexion of the race had changed.

It must be hoped that by next

year every effort will have gone into providing "shoots" and minimisiog the severity of some fences, which seem heyond all but the outstandingly sure-Even allowing that many run-

hrought down, it is disturbing that of the 27 who lined up for Those to go at Alniree's most the National without in the Those to go at Alniree's most falleo this season, nine came formidable fence through no falleo this season, nine came formidable fence through no falleo this season, nine came formidable fence through no falleo this season, nine came formidable fence through no falleo this season, nine came formidable fence through no falleo this season, nine came formidable fence through no falleo this season, nine came formidable fence through no falleo this season, nine came formidable fence through no falleo this season, nine came formidable fence through no falleo this season, nine came formidable fence through no falleo this season, nine came formidable fence through no falleo this season, nine came formidable fence through no falleo this season, nine came formidable fence through no falleo this season, nine came formidable fence through no falleo this season, nine came formidable fence through no falleo this season, nine came formidable fence through no falleo this season. ference.

In a race attended by 66,000, 9,000 more than last year, and watched by 500m television

**ANGLIA** 

NOTTINGHAM 2.00-Run Like Hell 2.30-Tuthill Bond\*\* 3.00-Bad Love\*

4.30-Cannon King\*\*\*

viewers worldwide, the saddest moment uodobutedly came at Bechers second time round where Alverton was killed. He was travelling well within himself at the time, according to Jonjo O'Neill and Mr. Snuwman's rider, Graham Thoroer. The latter commented: He looked to he a different class to the rest at the time. Alvertoo died instantly through a broken neck.

# Radio drama wins prize

THE CLERKS, a BBC drama first broadcast on Radio 3, is joint winner of the first Prix Futura for radio drama. It is worth DM 5,000 (£1,310). The other joint wincer is a Danish play.

General Service 2.00 pm). 6.00-6.22 Y Ovdd. B.30-9.00 Yr Wythnos. HTV West-AS HTV General Service exempt: 1.20-1.30 pm Report West Head-lines 6.22-7.00 Report West. SCOTTISH

9.30 am Ulrillo—A Painter of Peris.
9.50 DiBry of Civiliaation. 10.45 Faces to Faith. 11.10 Country Comes West.
11.35 Walking Westwerd. 1.25 pm Newa and road report. 2.25 Monday Matines: "Cepriee" ataming Oona Osy.
5.15 Popeye. 5.20 Crocaroads. 2.00 Scotland Todey. 6.20 Crimedesk. 6.30 Wilkie in Winter. 10.45 Home and School. 11.15 Late Call. 11.20 The Oetectives: McMillah. SOUTHERN

9.30 am Statiohary Ark. 0.55 Little House on the Prairie. †10.45 "The Golden Age of Comady" statring Laurel and Hatdy. 1.20 pm 5outhern News. 2.06 Houseparty. 2.25 Monday Matihee: "Three Coins in a Fountain starring Ocrothy MeGuire. S.15 Betty Boop. 5.20 Creasroads. 5.00 Oey by Oey. 10.30 Southarn News Extra. 10.50 Music in Camere. 11.20 Fireaide Theatre. 12.15 am Farm Progress. TYNE TEES

9.25 am The Good Word followed by North East Nawe Headlines. 8.30 George Hamilton IV. B.SS The Nature of Things. 10.45 Face to Faith. 11.10 Country Cemas West. 11.35 Welking Westward. 1.20 pm North East News and Lookaround. 2.25 Monday Matines: "A Tree Grows in Brooklyn." 3.50 Little Vic. 5.15 University Chellenge. 6.00 Northern Life. 11.45 Caah and Company.

ULSTER ULSILK
10.45 am Face to Faith. 11.10 Country
Comea Wast. 11.35 Walking Weatward.
1.20 pm Lunchtime. 2.25 Keep Up With
Yoga. 2.55 The Friends of Man. 4.18
Ulater News Haadlinae. 5.15 Carton
Time. 5.20 Croseroads. 6.00 Good
Evening Ulster. 10.45 Compago. 11.15
Richio Broekleman. 12.10 sm Bedtime.

WESTWARD

9.30 am Friends of Men. 9.55 Master of the World. 10.45 Face to Feith. 11.10 Country Comae Weal. 11.35 Walking Westward. 12.27 pm Gua Honeybun's Birthduys. 1.20 Westward NewsHeadlines. 2.25 The Mondey Motinos: "Carnival Of Thieves." 5.13 University Challenge. 6.00 Westward Oiery and Sports Oeak. 10.32 Westward Late News. 110.50 Feature Film: "Lady Hamilton" starring Larrence Olivier and Vivien Loigh. 1.00 am Faith for Life. 1.05 West Country, wdather, shipping loreesat. WESTWARD

YORKSHIRE B.30 am Untamed Frentiers. 10.00
The Wotsit Irom Whizzbong. 10.10
Tree Too Tales. 10.25 Ivahhos. 11.10
Children in 1944. 11.35 Beechcombers.
1.20 pm Celendar Newa. 2.25 Monday
Matinee: "Capries" statring Ooris Oay
and Richard Herris. 4.15 Cartoon Time.
S.10 University Challenge. 6.00 Calondar (Emiley Moor end Belmont editiono).
10.45 Jigsew John.
RA010 1

5.00 om As Radio 2. S.30 Rush Hour. 5.00 om As Radio 2. S.30 Rush Hour. 2.03 206 Showcaos. 4.03 Home Run. 6.10 Look, Sloo. Lisl6h. 7.30 Block Londonors. B.30 Breskthrough. 10.03 Lala Night London. 12.00 As Radio 2. 12.05 am Question Time Irom the House of Commons. From 1.05—Join Radio 2.

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Tomorrow 7.30 Galsworthy's STRIFE All Tomorrow 7.30 Galsworthy 3 Jan.

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# TV Radio

i Indicates programme in hlack and white

BBC 1

6.40-7.55 am Open University, (Ultra high frequency ooly). 12.45 pm News. 1.00 Pehhle Mill. 1.45 Over the Moon. 3.15 Songs of Praise. 3.53 Regional News for England (except Loodon). 3.55 Play School (as BBC 2 11.00 am). 4.20 Cheggers Plays Pop. 4.40 Baggy Pants and the Nitwits. 5.00 John Craven's Newsround. 5.05 Blue Peter. 5.35 The Perisbers. 5.55 Nationwide (London and Sunshine. South-East only). 6.20 Nationwide. 6.50 A Question of Sport. 7.20 The Rockford Files

for Wales. Northern Ireland-3.53-3.55 pm

\$10 Panorama. 9.00 News. 9.25 King. 10.55 Tonight.

Scene Around Six. 6.20-6.50 Hello

F.T. CROSSWORD PUZZLE No. 3,937

ACROSS 1 Jay relatives make excur- 1 Consignment to this place sions (6)

the masters (8) 9 AND ABOUT IS A DIOW to Life descriet (3-0) 10 42 airore one may announce

4 Fish preserved ahourd for

anneums trom the continuer can be out of this 7 His selection is at a 12 Sumeating witte (b) 13 One memues a com for each

person (U)

15 -2 1/8000 West-known to 16 rucas governor hights une 14 As Merch comes io the Conhowers (4' o)

19 suppen under canvas with eyu ucalgus (±, v) 20 1 --the Bullioers Came (rupe) 23 Maye reference to deceased 19 A scrap in a Portuguese

cugnited (o) 25 mark manuscripts with worus or opposite meanings 22 Jacket for the dance (6) 27 what have was to Jessyll 24 The French and the English

(0, 0) 28 Com uttered by oriental group in Penosylvania (6) The solution of last Saturday's 29 Worked for a period in prize puzzle will be published

chosen surroundings (8)

30 Impudeot that is for B native labourer (6)

DOWN

is ahrupt dismisoal (7)

3 Cheracteristics shown

Dumpty (2, 3, 4)

Joseph (8)

2 Diotracted - like Humpty

artist among the hirds (6)

5 Meintain a stronghold (4) 6 His wife had her eye on

8 Illicit liquor-store puts wait-

17 She was assured she would

18 It takeo a climber to know

21 Frank Levy upsets the

bad-tempered

with names of winners next

Saturday.

therefora must get up (4)

the tuoe (8)

Gestapo (7)

look nice on a tandem (5, 4)

Northern Ireland News. 5.55-6.20

Sunshine. 11.35 News and Weather for Northern Ireland.
England—5.55-6.20 Look East (Norwich); Look North (Leeds, Manchester, Newcastle); Midlands Today (Birmingham); Points West (Bristol); South Today (Southamptoo); Spotlight South West (Plymouth).

ANGLIA

9.35 am Betty Boop Cartoon, B.50
The Fire and the 5now 10.45 Face to The Fire and the 5now 10.45 Face to The Fire Advisor Charles (Book 11.25 pm Anglia Westward, 1.25 pm Anglia Westward, 1.25 pm Anglia Westward, 1.25 pm Anglia Monday Feature Film: "Ghenkis Khan" alerring Stephen Boyd, 1.00 am Refection. BBC 2

Weather for Scotland.
Wales—1.45-2.00 pm Pila Pala5.53-6.20 Wales Today. 6.50-7.20
Heddiw. 11.35 News and Weather

11.35 Weather/Ragional News. All Regions as BBC 1 except at the following times:
Scotland—5.55-6.20 pm Reporting Scotland. 11.35 News and 11.00 Play School. 4.50 Open University.

6.40-7.55 am Open University.

6.55 Horsehack. 7.20 Mid-Evening News including sub-titles.
7.30 The Joys of Opera.
8.10 Lennie and Jerry. 9.00 Rhoda.

9.25 Horizon. 10.15 Arena. 10.55 The Light of Experience, 11.10 Late News. 11.25 Closedown, reading.

LONDON 9.30 am Noddy. 9.40 Sinhad Junior Cartooo. 9.45 "Swanee Junior Cartono. 5425
River "starring Doo Ameche and
Al Joison. 11.10 Survival. 11.35
England, Their England. 12.00
Chorlton and The Wheelies. 12.10 pm Rainhow. 12.30 The Cedar Tree. 1.00 News. 1.20 Thames News. 1.30 Ahout Britain. 2.00 After Nooo Plus. 3.20 This Year Next Year. 4.20 Clapperhoard. 4.15 Horse in the House. 5.15

Emmerdale Farm. 5.45 News. 6.00 Thames at 6. 6.35 Crossroads. 7.00 The Kenny Everett Video

Show. 7.30 Coronation Strect 8.00 Chalk and Cheese. 8.30 World in Action. 9.00 Danger UXB. 10.00 News.

10.30 Political Tri-Party Discusaion. 10.45 The Eamona Andrews 11.45 Barnaby Jooes. 12.40 am Close: Peter Penry-Jones reads the Easter

story with B painting hy Tiotoretta.

All IBA Regions as London except at the following times: (3) Staraophonic breadcast

#Medium Wave

S.00 am As Radio 2, 0.00 Osve Les
Travis. 5.00 5imon Bates. 11.31 Paul
Burnott. 2.00 pm Tony Blackburn.
4.31 Kid Jansen. 7.00 Stayin' Airvs.
5.00 Andy Peebles. 9.50 Newsbeat.
10.00 John Peel (S). 12.00-5.00 am:
As Radio 2.

RADIO 2
5.00 am News Summary. 6.02 Tony Brandon (S). 7.32 Ray Moore including 9.27 Recing Bullotin and 8.45 Pause for Thought (8). 10.03 Jimmy Young (S). 12.15 pm Waggoners' Walk. 12.30 Pete Murrey's Open House 15). 2.30 Oevrd Hamilton (5). 4.30 Waggoners' Walk. 4.45 Sports Oesk. 4.47 John Ounn (5). 6.45 Sports Oesk. 4.47 John Ounn (5). 6.45 Sports Oesk. 7.02 Music from the Movies (8). 7.30 Alan Cell including 7.30 The Oance Sand Oays and B.02 The Big Band Sound (S). B.02 Humphrey Lyttalton with The Bost of Jazz on records (S). 8.55 Sports Oesk. 10.02 Tha Monday Movie Quiz. 10.30 Star Sound. 11.02 Brian Matthew with Round Midnight Including 12.00 newo. 2.02.5.00 am You and the Night and the Music (S). RADIO 2

RADIO 3 the state of the s

ATV 9.35 am 5omething Oifferent. 9.50
Gardening Today. 10.15 The Nelure of Things. 11.10 The Mackenzie Atlair.
1.20 pm ATV Newsdesk. 5.15 Give Us A Clue. 6.00 ATV Today. 10.45 Left. Right and Centre. 11.15 For Better. For Worse. 11.45 Barnaby Jones. BORDER 9.30 gm 5olo Ons. 0.50 A Orary ol Cryllastions. 10.45 Face to Faith. 11.10 Country Comes Wast. 11.20 pm Gorder News. 2.00 Houseparty. 2.25 Mainnee: "Protty Beby. 5.15 University. Chellengs. 6.00 Looksround Monday. 6.20 The Sound ol., Orane Kirl wood. 10.45 Late Film: "Blood Kin" sterring Lynn Redgrave. 12.40 am Border Nawo Summery. CHANNEL

UTIAININE

1.18 pm Channel Lunchtime News and What's On Where. 2.25 Manday Metines: "Cernival of Thieves." 5.15 University Challenge. S.00 Channel News. 6.10 Cartoentime. 10.28 Channel Lale News. 10.32 Lucan. 11.50 Nows and weother in French Iollowed by Channel Gezette.

Channel Gezette.

GRAMPIAN

9.45 am Firat Thong. B.50 Tarzen.
10.45 Faes to Feith. 11.10 Country
Comeo West. 11.35 Wolking Westward.
1.20 pm Grampian Newa Headlinea.
5.15 University Challenge. 6.00
Grempian Today. 6.05 The Electric
Theatre Show. 10.45 Reflections 10.50
The Menday Thriller: "Puppet on a
Chain." 12.35 am Grampien Lule Night
Headlines.

GRANADA

9.30 am Seseme 5 trest 10.25
5uryrool. 10.50 Elephant 3o. 11.15
Pictute Box. 11.30 The Beatles. 11.45
A Handlul of 5ongs 1.20 pm Oodo.
2.25 Monday Metinee: "Three For The
Road." 3.50 Wair Till Your Father Geta
Home. S.10 The Undersoe Adventures
of Ceptain Namo 5.15 Croseroads.
6.00 Graneda Reports. 6.30 Happy Oays.
10.45 Reports Polities. 11.15 Appointment With Fear: Edward Woodward
and Britt Exland in "The Wicker Men." GRANADA

HTV HTV

B.50 am Stars on Ice. 10.20 Georgo
Hamilton IV. 10.45 Face to Faith. 11.10
Country Comes Wear. 11.35 Walking
Westward. 1.20 pm Report Wast HeadInco. 1.25 Raport Walss Headlines.
S.15 The Underaca Adventures of
Captain Nemo. S.20 Crossroade. 6.0
Report West. S.22 Roport Walss. 10.50
The Monday Film: "The Loved One.
HTV Cymru/Wales—As HTV General
Service oacopt: 1.20-1.25 pm Penawdqu
Newyddion y Oydd. 2.00 Hamdden.
2.25-3.20 Aftet Noon Plug (es HTV

RADIO 4

Short (talk). 12.10 pm Midday Concert.
oart 2: Sibalius (5). 1.00 News. 1.05
BBC Lunchtimo Concert (5). 2.05
Music (or Organ (5). 2.40 Malineo
Musicale (S). 3.40 New Records (5).
4.55 Bendsrand (5). 5.25 Homeward
Bound (5). \$5.45 News. \$5.50 Homeward
Bound (5). \$5.45 News. \$5.50 Homeward
Bound. \$6.15 Ar Home: Richars
at Aldsburgh plays Mozart, Tchoikovsky.
Rechmoninov. 7.10 EBU Concert from
Vienna, part 1: Halhter, Scriabin (5).
B.1B Oh Producing plays in Ruscia
(interview with Peter James) B.35
EBU Concort, part 2. Rimaky-Korsekov
[5]. 0.10 Sound in Mind (5). 10.00
Brehms. Mozart, Schumann oisho
recital (5). 11.05 Suk: Violin and
prano recital on rocord (5). 11.25 Jezz
in Britsin: Travor Viatts Amalgam (S).
11.55-12.00 News.
vMF Only—6.00-7.00 am and S.457.10 pm Open University. 4.35 Story Time. S.00 PM: News magazine. S.50 Shrpping lorgcast. 5.55 Weather: orogrammo news. B.00 News including Financial Report. 6.30 The Burkiss Way (5). 7.00 News. 7.05 The Archera 7.20 From Our Own Correspondont. 7.45 "The Oybbuk," clay by 5. Ansky (5). 9.15 Musical Journeys in Indoneona. 0.30 Kaleudocoof. 9.59 Weather. 10.00 The World Tonight. 10.30 Porepective. 11.00 A Book at Bedlime. 11.15 The Financial World Tonight. 11.30 Today in Parliament. 12.00 News. BBC Radio London

RADIO 4
6.00 em News Briefino. S.10 Farming Week. S.25 Shipping foreeast. 6.30 Today Including B.45 Prayer for the Oey. 7.00. B.00 Today's News. 7.30. 2.30 Nown headings. 7.45 Thought for the Oey. 8.36 The Wook on 4. B.45 James Cameron with the BBC Sound Archives. B.00 News. S.05 Start the Week with Richard Baker. 10.00 News. 10.00 Right Extra. 10.05 Middila. 10.30 Oaily Service. 10.05 Wildila. 10.00 Oaily Service. 10.05 Wildila. 10.00 Oaily Service. 10.05 Wildila. 10.00 Oaily Service. 10.05 W

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### CAMDEN FESTIVAL

**Round House** 

# Don Quixote by RONALD CRICHTON

es were nember of Abbest gestiff Neapolitan opera buffa of 1769 wind-and-brass band for Qui- it easier). was re-worked over two cen- xote's major flights of fancy. turies later by Hans Werner The Roeing ensemble, at the Henze for the summer festival Round Honze at least, is poked at Mantepulciano. The public away in boles in Ralph Koltai's square of a Tuscan hill-town is otherwise ingenious set, the hig a more sympathetic place than band (from William Ellis the Round House and there the School) is up in the balcony. Updating may have worked. In The contrast is effective and the Phoenix Opera's staging for the dove-tailing neatly done by the Camden Festival last week—the two conductors, Jan Latham-first "opera in the round" it Koenig (down) and Richard first "opera in the round" II Alekman (up).

Hickman (up).

The small ensemble includes up-the joke turns heavy and goes on for too long. That is a knew. With their aid Henze has her a six-eight solo in the lirst pity, for the music, or what nne hears of it through the galumphing, is attractive.

Paisiello turned out opera Paisiello turned out opers the producer Tnm Hawkes has make sport of Quixote in fact like ice-cream, but he was a chosen a knockabout, jokev they spend more time on their good confectioner, not to be style with bawdy oaths uttered own uninteresting love-afforms) despised his Barber of Seville in the wincing way English and the knight's ability to rise can still be heard with pleasure opera singers use when they are serenely if dottily above them in spite of Rossini, Henze seems trying to act like real comics, and their pranks. It hardly to bave worked on his original one has the uncomfortable feel-

Logan Hall ...

Paisielin's Don Chischiotte, a main intrigue and an amateur orchestra (the balcony band has

instruments. Paisiello never two most tuneful numbers-for contrived some entertaining part, for them hold a pretty duet accompaniments, though one or inwards the end of the oneratwo of the percussion effects. The story deals with the efforts come round too often. Because of some up-country gentry to fairly freely, re-composing it for ing of missing good things from Henze a chamber ensemble for the the half-submerged downstairs point.

Judging from the amount of ill-tuoed singing, some of the performers also found it dillicult to hear the small orchestra, Exceptions were the cicr-reliable Kenneth Bowen as Quixute, Alan Opic a, San-ho Panza, Kate Flowers as Carmosina and, when she was allowed to stand still and stog. Alison Hargan as the Countiess. Sancho and Carmosiona had the they spend more time on their Henze's calibre to make the



Teatro alla Scala, Milan

# Mose and Boheme

by RONALD CRICHTON

An event of the present seasoo the name given in the librello at La Scala has been a revival of to the brother of Moses—though nne of the grandest of Rossini's serious nperas. Mosé. This is belonging to Giampaolo Corradi the usual title for the Italian was lighter and more agile than version of his Moise et Pharaon produced io Paris in 1827, a recomposition and expansion of the earlier Mase in Egitto given at Naples in 1818-Rossini revised the third act the following year, adding the work's most famnus number, the Prayer "Dal tuo stellato snglin." Moise was his last opera but two. Only Le Comte Ory and Guillaume Tell were to follow. The Prayer apart, there are no single numbers which have become popular, yet the graudeur and mastery of this npera of choruses and ensembles has kept it in the repertory even interest in Rossini's

serious side was mioimal. . The new Scala version is Mnice suog in Italian, revised (with one eye ou the first Italian edition of the score) by Jesus Lopez Cobos, who conducts the performances and is preparing a new critical edition of the score. Producer and designer are Luciano Damiaoi. The results have not provoked much enthusiasm, yet the production is not a fiasco-re-planoing of the

lighting and strooger all-round casting would make all the difference. In a discussion with Damianl printed in the programme Lopez Cobos claims that the version given is "almost" complete, but admits cutting some repeats, mainly it seems for the benefit of the singers. This does not necessarily benefit Rossini, whose big structures become lop-sided.

Evgeny Nesterenko, the voice Barazzini for her strong top ever more imposing and richly notes, overlooking some illcoloured, dignified in his slow tuned smudging lower down. movements yet never fully com- Luigi Roni sang the priest manding the stage until the Osiride, Prayer in the last seene. The Egyptian team, vocally at least Pharaoh of Simon Estes, though stronger than their adversaries. seated nn a throne for much of much effect-her scene in Act Moses.

concerned with darkness, most nf it summoned up by the protagonist. But stage darkness can be simulated without creating confusioo-it doesn't need follow-spots to make the younger singers' features clear enough correctly identified Elisero- better today. The staging has

warn well, though in the secondact sel-full height Parisian one tenor voice presumably house-froms with a split-level street below, crowds nn a terrace and the Cafe Momus on the sound made by Vincenza a lower level still-it is not easy Bello, who sang the heavier (and very demanding) first to reconcile the slow motion of the crowd with the pace of the tenor part of Pharach's snn music. The third act, with the harrier seen in sharp persper-Aménophia, whose love for the Jewish girl Anaide complicates tive, disappearing behind a the efforts of Moses to lead the slight rise in the snowy ground. Jews out of Egyptian captirlly. is excellent

This fundamental miscalcula-tion was the stranger for quality of Ileaoa Combas as Damian's professed intention to Mimi could be foreseen, not bowmake Mose ninre drama than ever the full poignancy of her oratorio (Rossini's description of last act, where the fading yet the original was ozione tragico- beautifully poised line was so socra) but what came out was perfectly matched by the coo-precisely an nuatorio, seen more-ductor's gift for intensity in over by emergency lighting. This extremely soft playing. was a pity because Damiani is a there have been a better Musetta designer of great talent. Though than Lucia Popp since Welitseb? his use of a billowing white The middle voice is oow as beautiful as the top, Pavarotti's canopy-cloth above the acting area to symbolise the various complement to the Mimi of Cotplagues became monotonous, his sand-duoc sets, splendid but not rubas. The sympathetic quality gaudy costumes and elaborate of Cappuccilli's Marcello surprise-be isn't often allowed attributes (banoers, throoes, a comic role. Nesterenko made a canopies) for Pharaoh and his baunting Russiao romance out court gave pleasure when they of Colline's solo. Kleiher's could be seen. The crossing of the Red Sea was effectively managed with more billowing cloths, this time lower down.

hig bear of a Rodolfo is the Ideal

extremely but not intolerably

elastic conductiog produced as

brilliantly expressive playing by

the Scala orchestra as an un-

forgettable Butterfly under de

Two singers win

Miriam Licette award

singing scholarship has been

awarded, for the first time, to

two singers, the Arts Council has announced. They are Anna

King, 26, of West Hampstead,

The scholarship is awarded

Oxfordshire, and Mary

Marie Holroyd, 23.

London.

The £1,500 Miriam Licette

Sabata many years back.

The obscurity on stage no doubt added to the audience's irrilatioo. The upper reaches of the house objected to the hallets (there was a clumsy device of blackouts to get the chorus off and on again) though they were competently done lo choreography hy Geoffrey Cauley. The gallery also gave the hird to poor Amenophis, gamely as he wrested with his Moses was the Russian bass applauded the Anaide of Maria

The orchestral playing under the action, bad more character. Janez Cohos was clear, well-Hls lighter, more incisive sing- ordered and geoerally distin-ing, told well against the other, guished yet sbort of majesty for Of the ladies only Julia Hamari thiogs like the hig, brass as Pharaob's wife Sinaide made accompanied recitative of "Eterno! immeoso! 2 (the first two acts were dooe incomprensible Dio!" Considerwithout a break, and very long ing the limitations of same of they seemed) was brilliant not the singers the hig ensembles only for the relish and con-went pretty well, notably "Mi fidence with which Miss Hamari manca la voce" Ifull of sang Sinaide's music hut Verdiao premunitions) in Act 3 because during this scene she and the sunerb G minor introduction to the previous act with The production as a whole the snaky theme winding its was a curious demonstration of way through key after key. The how in the opers house ear Praver in its cunoing simplicity and eye interact. Mose is much made the usual rousing effect.

The previous evening brought a chance of seeing the famous Zeffirelli production of La Boheme ionly five years than the equally than historic Visconti Dnn Carlos at to be recognisable. I am still Covent Gardeo), with Kleiber not absolutely certain that 1 conducting and a cast difficult to

by B. A. YOUNG so much learning." Richard sister Victoria Strauss said to Hindemith, "that Margolyes), who was only a doll I wonder you do not write in Act I, is now married, but is music." I feel a similar emotion thinking of leaving her

Group.

Establishing this pattern lerday. appears to be all that the first act aims to do. The second act, set io nur own time, alsn confines itself to setting a Meanwhile, I can at least repeat pattern, but it is a very different nne. Edward, now played by

Jim Hooper, lives with another

"You write so well, and have man of dubious fidelity. His about Caryl Churchill. Cloud husband to go and work in Man-Nine is full of good lines and chester. She also leans towards effective little situatioos: but at a lesbian relationship with Lin the end of it I fell we had seen (Carole Hayman), a single, nothing more than an enjoyable parent with a tiresome daughter . exhibition of the splendid act- Calhy (Antony Sher), who vies ing of the Joint Stock Theatre with ber in foulness of mouth.

Cloud Nine

But here it is all over again. The play is in two distinct nothing bul actual or potential halves. The first employs all switching of partoers, the the current disparaging ideas sexual preferences being casual about the Colonial era. It is as in the extreme. Should we ill-informed as it is ill-natured, learn samething from the comhul neither characteristic parison of the two worlds? I matters much, since it takes the learnt nothing, I'm afraid. That form of a cartnon io which the Joint Stock Company is historical accuracy is not talented and versatile I knew esseousl. Clive, played by already, and that Max Stafford-Antony Sher, is a Colonial Clark is a director of elegant archetype, and Betty (Jim talent. If the aim is to show, Hooper) his archetypal wife, as the thome song suggests, Their small son Edward (Julie that any kind of sexual union Covinginn) is different, how- may be blissful, this is old news ever; he plays with dalls and hy now, and was indeed demnihas dirty secret games with strated rather more clearly in Harry Bagley, the great, but the simple unsophistication of gay, explorer (William Hoy- Rony Robinson's piece at the Theatre Rnyal, Straufnrd, yes-

> If this was not the aim, I am surry to have missed samething that I have no doubt I should that the playing of the company, transexual or ntherwise, matchlessly gond.



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# Janet Baker by ELIZABETH FORBES

The Canden Festival drew to intellectual settings. The elfin a triumphant close on Saturday charm of the accompaniment in high with a recital given by "Nene Liebe" brilliantly evoked Heine's poem while in the familiar and well-loved Parsons at the Logan Hall. "And Flügeln des Gesanges"— "Azaël! Why did you leave Rayan and dedige. singers treat an opening group of orie antiche merely as a means of warming up their own voices or of settling the audience's attention. Not so Dame Janet, who lavished all her interpretative skill on each and every item in the programme and from the first note of the first song—Caldara's "Selve amiche"—held her listeners in the vice-like grip of her own concentration. Martini's tenderly regretful "Plaisir d'amour " established a mood of not wholly regained the total Dame Janet gave two encores sorrowful love that Pergolesi's

particular pleasure to hear songs in this miniature cycle, served to show off her techseveral Lieder by Mendelssohn caught to perfection the elusive, nique; humour crept into the sung without a trace of condescension. The piano playing of Geoffrey Parsons contributed greatly to the enjoyment of these accomplished if scarcely tion, both vocal and planistic, of capacity audience.

utterance entirely free from false naivety. In "Nachtiled" Dame Janet's exquisitely fine spun line had the strength as well as the delicacy of silk. The spun line had the strength as well as the delicacy of silk. The field by the last song in the spun line had the strength as well as the delicacy of silk. The

In "Recontre" Dame Janet bad orrowful love that Pergolesi's absorption that characterises her in styles quite different from Ogni pena" further explored. singing, but "Toujours" and the poetic tone of her main In the next group it was a "Adleu," the second and third programme: Mozart's "Allelula" hitter-sweet flavour of a love hitherto serious proceedings affair over almost hefore it has with "I just love my voice," a begun. Dehussy's "Mandoline" sentiment whole-heartedly displayed the splandid articula-

Parsons at the Logan Hall.

Rarely can artistry and dedication have been presented in such pure, intense form. Many singlest tree form. Many singlest tree form. Many singlest tree form when the familiar and well-loved agnny in the repeated crics of "Azaël! Why did you leave me? contrasted effectively with the gentler emotions of Mendels—such pure, intense form. Many singlest tree form. Wany singlest tree form when the gentler emotions of Mendels—so that the gentler emotions of Mendels—so that the gentler emotions of Mendels—so that the gentler emotions of Mendels—so the gentler emotions of Mendels—so that the familiar and well-loved agnny in the repeated crics of "Azaël! Why did you leave me? contrasted effectively with the gentler emotions of Mendels—such pure the familiar and well-loved agnny in the repeated crics of "Azaël! Why did you leave me? contrasted effectively with the gentler emotions of Mendels—such parts of the familiar and well-loved agnny in the repeated crics of "Azaël! Why did you leave me? contrasted effectively with the gentler emotions of Mendels—such parts of the familiar and well-loved agnny in the repeated crics of "Azaël! Why did you leave me? contrasted effectively with the gentler emotions of Mendels—such parts of the familiar and well-loved agnny in the repeated crics of "Azaël! Why did you leave me? contrasted effectively with the gentler emotions of Mendels—such parts of the familiar and well-loved agnny in the repeated crics of "Azaël! Why did you leave me? contrasted effectively with the gentler emotions of Mendels—such parts of the familiar and well-loved agnny in the repeated crics of "Azaël! Why did you leave me? contrasted effectively with the gentler emotions of Mendels—such parts of the familiar and well-loved agnny in the repeated crics of "Azaël! Why did you leave me? contrasted effectively with the gentler emotions of Mendels—such parts of the familiar and well-loved agnny in the repeated crics of "Azaël! Why did you leave me? contrasted effectively with the gentler emot

more robust humours of recital Stanford's setting of "La Hexenlied" were expressed in hell dame sans merci." Where Hexenited were expressed in hell dame sans merci. Where appropriately full, resonant Delius and Björnson evoke an The second half of the pro-gramme began with "Poeme d'un Jour." Fauré's setting of verses by Charles Grandmougin. atmosphere of sad but harmless to demoostrate her versatility.

enton House

# Joseph Payne

comments for his recordings of Bach's French Suites, now released in this country.

reemed ill-at-case, as well he night. His six pieces, repreentative of a lively interest which American composers have hown in the bright, percusvely-plucked possibilities of the larpsichord, were all surely resigned for a sophisticated reproduction instrument complete with foot pedals, automatic gear change and overdrive (as irreverent practitioners are wont to call these helpful modern aids). But at Fenton House Mr. Payne was faced with a lumbering 1770 Shndi-Broadwood— possessing, it is true, two manuals and plenty of stop changes, but very hard to man-bandle and by no means exactly in tune. Indeed Payne's own semi-improvisatory. Outphalos was marked by a long silent tussle with a recalcitrant hand-stop which did not increase the piece's coherence. Most substantial was Daniel Pinkham's soberly winding Partita, a serious piece of e foration. Too

to be over before the motet had.

This somewhat surreal recital ingly filp, with a smoothy tune even been properly stated. But was entirely devoted to contemand squareness of rhythm that I am wary of indging these
corary American harpsichord
owed nothing to the 18th cenpieces in the circumstances; and
music and was given by a player
tury and everything to Holly- I am even more wary of judging Ann McMillan's April Episode on a barpsicbord which became was a nicely astringent minia progressively more unpleasant to eased in this country. ture, the world premier of listen to. Surely the Camden On this occasion Mr. Payne Robert Stern's Fantasia on a Festival could have afforded a motet by De Florentia seemed tuner in attendance?

New Oxford dictionary

Paperback Dictionary, compiled hy Joyce M. Hawkins, which in

presents its information in a there is a clear indication of its practical way. If you look up pronunciation.

just under 800 pages, at £1.75, not confuse with 'trosper'. gives information on 45.000 Under "trouper." lesides words, and phrases. The definition and the phrase dictionary is designed, both good trouper." comes a cr dictionary is designed, both good trouper." comes ascross-editorially and typographically, reference again to "trooper"; to be as easy to use as possible. also, in case you should he Besides carrying the authority tempted to pronounce "nouper" of an Oxford dictionary. It like "trousers" or "trout"

Capital Radio to encourage drama

more drama for broadcasting, offering a similar prize for a Capital Radio is awarding a play for a small touring com-£750 prize to a new writer and pany to perform). serious piece of enformination. Too the chance of having a play on much else was formusic pleathe air. The award is being one over the age of 15 who lives, santry. Norman Dello Jolo's made through the Greater works or studies in Greater Homage to Scarlatti was shock. Loudon Arts Association London.

A new dictionary has been "trooper" for example, after added to the family of Oxford its two meanings | British and dictionaries. It is The Oxford American) you will find the and also a warning note; "Do Under "trouper." hesides the

Mr. Payne from his performance

In an attempt to encourage, (which, at the same time, is

was brightly lit.

### annually to female siogers under the age of 30 for advanced study in Paris. Julie Covington and Jim Hooper

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Catholic	7.50	●8.20	9.00
Cbelsea	7.75	8.00	9.25
Cbeltenbam and Gloucester	7.75	8.00	9.25
Citizens Regency	7.75	8.30	9.50
City of London	8.00	8.30	9.25
Coventry Economic	7.75	8.00	9.25
Coventry Provident	7.75	· 8.00	10.00
Derbyshire	7.75	8.00	9.25
Ealing and Acton	7.75	8.50	
Gateway	7.75	8.00	9.25
Greenwich	6.45	8.10	9.25
Guardian	7.75	8.25	8.50
Halifax	7.75	8.00	9.25
Heart of England	7.75	8.00	9.25
Hearts of Oak and Enfield	7.75	8.25	9.75
Hendon	8.00	8.50	
Huddersfield and Bradford	7.75	8.00	9.25
Lambeth	7.75	8.30	9.75
Leamington Spa	7.85	8.10	<b>■</b> 10.97
Leeds Permanent	7.75	8.00	9.25
Leicester	7.75	8.00	9.25
Liverpool	7.75	8.00	9.45
Loodon Goldbawk	7.75	78.50	†9.75
Melton Mowbray	7.85	8.10	9.25
Morningtoo	8.25	8.75	_
National Counties	8.00	8.30	9.30
Nationwide	7.75	8.00	9.25
Newcastle Permanent	7.75		
		8.00	9.30
New Cross	8.50	8.75	
Northern Rock	7.75	8.00	9.25
Norwieh	7.75	8.00	9.50

Paddington .....

Peckham Mutual .....

Portman .....

Priocipality .....

Progressive .....

Property Owners .....

Proviocial .....

Sussex Mutual .....

Waltbamstow .....

8.408.00 8.50 8.00 7.75 8.00 9.25 8.25 9.25 7.75 8.50 9.75 7.75 8.00 9.25 9.50 4 yrs., 9.00 3 yrs., 8.50 2 yrs. Skipton ..... 9.50 4 yrs., 9.00 3 yrs., 8.50 2 yrs. 9.25 8.00 9.30 3 yrs., 9.00 2 yrs., 8.75 1 yr. 8.35 Town and Country ..... 7.55 10.00 9.50 4 yrs., 9:00°3 yrs., 8.50°2 yrs. 8.00 7.75 8.10 9.20 9.60 4 yrs., 8.85 3 mths, not, min. £500

8.85 2 years. ■ 3 years 9.50 4 yrs., 9.00 3 yrs., 8.50 2 yrs. 9.50 4 yrs., 9.00 3 yrs., 8.25 3 mths. 9.10 3 yrs., 8.60 2 yrs., min. £1,000 \$9.25 2 yrs., \$9.00 1 yr. 8.85 2 yrs., minimuo: £2,000 9.40 6 mtbs., 8.75 3 mths., mio. £1,000 9.50 4 yrs., 9.00 3 yrs., 8.50 2 yrs. 9.50 4 yrs., 9.30 3 yrs., 9.00 2 yrs. 9.50 4 yrs., 9.00 3 yrs., 8.50 2 yrs. 9.00 3 yrs., 8.75 2 yrs., min. £500 9.00 3 mths., 9.25 6 mths., mio. £1,000 9.00 3 yrs., 8.75 ½-yrly., 8.25 3 mths. 9.50 4 yrs., 9.00 3 yrs., 8.50 2 yrs. 9.50 4 yrs., 9.00 2 yrs., 8.75 3 mooths 9.00 3 months' notice

Woolwich ..... 7.75 9.50 4 yrs., 9.00 3 yrs., 8.50 3 yrs. 00.8 9.25 \*Rates normally variable in line with changes io ordinary share rates. i Includes 0.25% Centenary Bonus throughout 1979. All these rates are after basic rate tax liability has been settled on behalf of the investor.

FOOTBALL BY TREVOR BAILEY

# Arsenal to Wembley with win over Wolves

Wolverhampton Wanderers by the goalkeeper. 2-0 to reach Wembley for the second time in succession.

In last year's semi-final they outclassed Orient, who looked an indifferent Second Division team and played like one, while on this occasion it was easy to understand why Wolves are still in the relegation zone.

The Midlanders can consider themselves fortunate that there are so many indifferent First Division teams, because in a vintage season they would surely go down.

The first 45 minutes were drab and seemed to last twice as long, containing those ingredients responsible for so many indifferent semi-finals.

The fear of defeat dominated everything else, with two four-man midfield formations more concerned with providing additional cover for their respective rearguards than support for the yes. two-man forward lines.

the high punt upfield and the character and experience.

ARSENAL BEAT a sadly inept most popular pass was back to

cent of the ideas, so that it half. came as no surprise when they

and effort proved a constant source of embarrassment for a and main inspiration Liam gave his side the lead with a are not those who win when spectacular shot. Later his partner upfront, Sunderland, pounced on a defensive error to shoot under the advancing

'keeper. The Gunners now have the opportunity to make amends, not for losing the final against Ipswich, but for the way they

lost it.

Can they do it, even though their new opponents, elther Liverpool or Manchester United, attempt. will provide more formidable opposition?

The answer is an unqualified The present Arsenal, although it may be little better It was full of frantic running, as a footballing combination hasty distribution and mistakes. than the one that froze at Wemmain attacking ploy was bley, does possess more

Even in that painful period enabled them to pull out that limitations and looks a fine no jam. the Gunners provided 80 per little extra when things were cent of the football and 90 per not quite clicking in the first

It also allowed them at Villa took control after the interval. Park to overcome the consider-Stapleton, whose skill, courage able handicap of being without their world-class international suspect back four, deservedly Brady. The outstanding sides playing well, but those who still

win when not at their best. There are other omens in Arsenal's favour. Losing FA finalists who return in the following year bave a good record of success.

Since the war Manchester United, Manchester City and Chariton Athletic have all triumphed at their second

Favourites also have had an the last three occasions. This time the Gunners are unlikely to be the fancied side.

unhappy record at Wembley in splendid rescue job with limited bring real glory back to Wolverrecent years, falling, indeed, oo playing resources.

prospect for the future, be is If his team avoids relegation, not yet the class First Division then John Barnwell can rightly half-hack he should become. Messrs. Neill and Howe have methods have been fully to try to see their players avoid justified.

injury, but at the same time they cannot afford to have them ably fair summing-up to the hold back in League matches.

about a losing sequence and need to rebuild next season. undermine the existing high morale, especially as Liverpool been good enough to reach the will continue to churn out the semi-final though it must be right results, Manchester United mentioned that they never seem to have struck their best encountered First Division form, and both have exceptional oppositioo on the way, but it back-up squads.

The Barnwell and Barker combination which took control at Molineux in November, when the club appeared to be inexorably beading down into the Baruwell-Barker partnership Second Division, bave done a

deliberately and inevitably succeed. frugal, with the emphasis on their lack of high-quality cover. ball away themselves, rather expect an overnight miracle.

These two virtues count for Although young Gatting per- than creation; bread-and-butter much on the big occasion. It formed admirably within his football, with little butter and

claim that his rather dull In his brief, lucid and admir-

Press after the match, John This could so easily bring showed that he recognised the His present team may have

was all too obvious on Saturday that they simply did not possess the class required to wio honours in England and Europe.

It will probably take the two, perbaps three years to hampton, but this pair have the Their tactical policy has been ability and the determination to

It is to be hoped that the The higgest threat to Arsenal's exploition mistakes by the Midland supporters, who are capturing the Cnp could well be opposition and not giving the inclined to be impatient, do not

**FINANCIAL TIMES** 

Monday April 2 1979

# Security is not enough

had been different. Acts such as the assassination of Mr. Airey Neave and the British Ambassador to The Hague, Sir Richard Sykes, appear to be those of people who are pursing violence for its own sake and who are not open to any kind of political argument. They are to be have been dropped.

utterly condemned.

In these circumst

### Warnings

At the same time, however, it would be hard to maintain that British policy recently has been a conspicuous success. Mr. Roy Mason, the Secretary of State for Northern Ireland, deserves some credit for the way he beloed to improve security and even to attract some economic investment to the province. Yet it has been clear for some months that the reductinn in the level of violence has gone about as far as it can possibly go under present policies. Both nolice and army officers had been warning that the Provisional IRA had undergona a period of reorganisation and that it was prenaring to strike more efficiently and at a ecographically wider range of targets than tained, though at a price, but in the nast. In that sense, the events of the last few weeks are not entirely surprising.

There must also be some doubts about a nolicy which continues to nour money into Illster without any economic justification. The Kilroot nower station which will produce enormous excess canacity, is one Another is the DeLorean car nlant, which simply went to the bidder who was prenared to offer the hishest nublic subsidy.

The tightening of security as practised by Mr. Mason was destrable in itself. There might the search for a political settle-also have been something more ment that takes account of the to be said for his policy of distributing financial largesse if it had been accompanied by the killing of Mr. Neave a political dimension. All too security will again have to be plainly, it was not. British policy towards Ulster, especially alone is not anongb. There must

IT WOULD be impossible to Westminster may have been prove, and it is in any case not justified on the grounds that very likely, that the present the province is seriously under-outbreak of attacks by the Pro-represented in comparison with visional IRA and other related other parts of the UK. But it leaking nuclear power station bodies would have been less was widely seen as a device to in Pennsylvania. vicious if British policy towards buy Unionist support in order Ireland over the past year or so to keep the Government in power a little longer. It is also inexcusable that it should have contained no provision for proportional representation, despite the special Ulster circumstances. principle of "power-shar-or whatever similar term one chooses to use-seems to

In these circumstances, it is understandable that the Catholic community in Ulster abould hava become more isolated and more alienated. That is not to say that there is much support for the Provisional IRA and its offshoots Indeed it is striking that one of tha most moving tributes to Mr. Neave came from Mr. Gerry Fitt, the sole representative at Westminster the Social and Democratic Labour Party. But it is to say that there is a daugerous political vacuum in which support for the IRA could yet

No government is more aware of this than that of the Irisb Republic. For ultimataly the IRA threat to Dublin is greater than it is to the British main-land. In Britain the violence can be almost certainly conin the Republic it is a potential threat to the very system. That is why Irisb governments no longer seem to condone IRA activities. Their co-operation with the British authorities in security matters is now almost complete. There is also no longer any official demand for the withdrawal of British troops from Ulster.

### Objective

Yet there remains one element in the Irish position that the British Government has recently overlooked. It is that Catholic community in Ulster should not be forgotten. After tightened. But a security policy the last few months, has been also be a political objective. characterised by an apparent That will be a major task of readiness to lean towards tha Unionists at the expense of the Catholics. The Bill to increase even if it means going back to the number of Ulster MPs at Sunningdale.

Wall Street at the end of last week.

The accident was triggered in the early hours of last Wednesday by a faulty pump and made worse by buman error when an emergency cooling system was

# A temporary price freeze

AS WAS ONLY to be expected mates suggest this year's bill in the run-up to the general may reach £2.5bn. Few British election, Mr. John Silkin, the voters will ever have beard of British Minister of Agriculture, the Commission's milk tax has been claiming a good deal of credit for the outcome of last three-month price freeze may week's farm price talks in sound impressive from election Brussels. It is not clear, however, that the result was all that has actually been achieved, it much of a triumph, either for is not at all obvious that the Britain or for the Community bargain comes out on the plus

It is true that Mr. Silkin or for Britain. argued, with admirable persistence, in favour of the Commission's proposal that there should be a general freeze of the 'common' prices, but it would be an illusion to suppose that his arguments have won over his opponents in other member states. If in practice there will be a price freeze for at least three months, this is not because the Nine positively agreed, but only because they remained deadlocked, and had little option but to extend the current price regime.

### Doggedness

The defeat of the British Government and the imminence of the election campaign ruled out the convening of another farm ministers' Council in the near future, and the earliest data that negotiations can resume again will be the middle of May. Since no-one expected agreement to be reached at the first or even the second session of the new round, it seemed prudent to assume that current prices would bave to remain in force until the end of June. Mr. Silkin by his doggedness. and the government by its defeat in the House of Commons, have certainly delayed any increase in the ' common price levels. But it would be premature to assume that the principle of a price freeze has made substantial headway in the Council of Ministers.

The other side of tha coin, of course, is that the deadlock over prices also included a deadlock over the Commission's proposals for new taxes on milk production. These taxes cannot now be imposed, on the best hypothesis, until September

It is a safa bet, therefore, that the milk surplus, which is already pre-eminent among the expensive scandals of the common agricultural policy, will become even larger and more expensiva this year. Last year intervention buying of surplus milk cost the Community £2.3bn, and preliminary esti-frontation.

proposals, and claims of a platforms. But in terms of what side, either for the Community

The doubts are particularly acute in the case of Britain's national interest, since the cost of the surplus of milk (as of other products) falls more beavily on the British taxpayer than on his continental counterparts. As it is, Britain is already, we now learn, the biggest net contributor to the Community budget, and the blll is expected to rise, despite the fact that it is one of the poorer

Community countries.

None of this should be taken as decrying the principle of a freeze oo the "common "prices; on the contrary. We bave long argued that the Community's farm price levels are far too bigh—that is why they lead to production of unsaleable surpluses—and should be brought down. Taken in isolation, a reduction in price levels is almost certainly unattainable on political grounds, so the next best thing is a price freeze on surplus products.

### Compromise

In that sense the only positive decision which did emerge from the Council-the devaluation of the British, French, Italian and Irisb "green" currencies—was a tolerable compromise with reality. Farmers in these countries will get a small increase in prices (though still less than the rate of inflation), while German farmers, whose prices are already far the highest in

the Community, get no increase.
The trouble with the Silkin approach is that, by its exclusive concentration on the electorally appealing slogan of a price freeze, it has prevented substantive negotiation on other less dramatic measures which could have played a useful part in curbing surpluses and reforming farm structures in Any reform of the farm policy is bound to be a alow process, and it is bound to be more complicated than Mr. Silkin's plan for a four-year price freeze. The name of the game is negotiation, not con-

# 4 major setback to U.S. nuclear power

By David Lascelles in New York and David Buchan in Washington

through a tense weekend watching and waiting while engineers grappled with the country's worst nuclear accident to date—a crippled and

By yesterday, five days after tha cooling system at the Three Mile Island plant in the Mile Island plant in the Susquehanna River had failed and radioactive steam bad spewed into the atmosphere, it was still not clear how the emergency would end. Pressure and temperature in the damaged reactor core were high. Nobody could get near because of ascaped radiation. It will probably not be possible to approach it before tomorrow or Wednes-

### Danger likely to recede

Although the reactor was stable, the cooling process was complicated by the presence in the core of a steam and hydrogen bubble. Officiala feared it could force out cooling water as pressure was reduced and expose the fuel rods or explode itself.

It appeared though that the worst catastrophe, reactor melt down—which officials of the **Nuclear Regulatory Commission** said earlier could not be ruled out-was unlikely and that the danger was receding as time passed. Even if the emergency ends

in the next few days, and the thousands of people who fled the area return safely to their homes, the incident is little short of a disaster for the cause of nuclear power. The case for it had just begun to regain momentum because of fuel shortages caused by the Iranian crisis. The repercussions of what happened at Three Mile Island may well spread to other countries engaged in the nuclear debate. It is the second nuclear story

to reach the headlines in two wecks. In mid-March, five atomic power stations were shut down because of faulty design. Not surprisingly, shares of nuclear companies slumped on Wall Street at the end of last

emergency cooling system was mistakenly turned off, overbeating the core for a time. Subsequently some of the water which had leaked on to the reactor floor was mistakenly piped to an auxiliary building which had no rzcition filters. What was originally presented as a minor accident escalated in the next two days as complications developed with cooling, and radioactive steam escaped from the containment building. By Friday, the Governor of Pennsylvania, advised pregnant

MERICA HAS gone women and young children in the immediate area to leave and people within 10 miles of tha power station to close their doors and windows. Schools within a five-mile radius were closed. By Saturday, thousands more bad left the neighbouring towns, leaving them ghost-like and empty and prompting the authorities to declare a curfew to prevent looting.

President Jimmy Carter issued a statement urging Pennsylvania officials to "err on the side of safety and caution" and opened up a bot line from the site to the White House. Ironically, he was cloistered away preparing a major statement on energy policy for later this week. Public reaction at all levels was swift and sharp. Dozens of anti-nuclear protestors descended on the area with their banners and leaflats, and in Washington, Congressional leaders were outspokan in their criticism.

The Senata majority leader, Mr. Robert Byrd, said the accident had shattered people's faith in nuclear power. Senator Edward Kennedy wrote to Dr. James Schlesinger, the Energy Secretary (who was still valiantly defending the longterm safety record of nuclear power) that "it was more important to build these plants safely than to build them quickly." Senator Henry Jackson, Chairman of the Senate Energy Committee, perhaps the single most influential figure on energy policy and not an outright opponent of nuclear power, said the accident would hurt the nuclear programme and leave it in "aemi-limbo."

Many of the statements may bave been hasty responses to an atmosphere of crisis, but the fact remains that the accident could hardly have come at a more critical time for all those involved on either side in the nuclear debate, which means most of the country. The timing is also ironle given the recent release of the China Syndrome, a highly publicised film starring Miss Jane Fonda about an uncannly prescient crisis at a Californian nuclear power plant. It contains the line that a nuclear accident would render permanently uninhahitable an area "the size of Pennsylvania."

### Growing energy problems

For the backers of nuclear power all of this is most unfortunate, since the accident bappened just as the country's mounting energy problems might well bave brought about a shift of public and congressional opinioo on to their side.

There have been a few straws in the wind in recent months. The environmental lobby, long the major rallying point of nuclear opnonents, bas been weakened somewhat by the prowine awareness that coal must be mined, refineries built,

The reactor: British interest: Previous accidents

Three Mile 1sland 2 is a newly-completed 880 MW pressurised water reactor (PWR) built by the U.S. company Babcock and Wilcox. It was still being commissioned when the accident happened. Its owners, Metropolitan Edison, have operated a slightly smaller (800 MW) reactor of the same kind and make

(800 MW) reactor of the same kind and make since 1974.

There are more commercial PWRs operating in the world today than all other types of reactor combined. Of a total of 523 commercial reactors operating, under construction or ordered throughout the world, 283 are of this type. It is the reactor used in abmarines, including British nuclear submarines. Britain is currently building a PWR in Stotland for the navy to use in demonstration and training.

The Babcock and Wilcox reactor is one of four designs—three American one German—being evaluated by the British Central Electricity Generating Board, with a view to ordering a commercial demonstration plant in Britain in the carly 1980s. The aim of this demonstration would be to see whether this type of reactor bolds significant divantages for the electricity supply industry over British designs of gas-cooled reactor. The FWR, with its water cooling, is a more compactive actor—bence its use in submarines. But the most obvious advantage for Britain appears to lia in the fact that much more of the PWR can be prefabricated in the factory than is the case with British designs. be prefabricated in the factory than is the case with British designs.

The most obvious disadvantage seems to be that, should an accident occur, events bappen more swiftly than with the UK designs, which allow bours instead of milutes for crucial decisions to be taken.

A melt down is the worst kind of accident which can happen to a nuclear reactor. It is the melting of the nuclear fuel when the

to clear the way for more

nuclear power in the form of

Bills to speed up licensing and

proposals to approve reactor

designs on a standard rather

had lost some of its edge, and

At the moment, the U.S. bas

With the prospects for domes-

just over 70 nuclear power stations generating 13 per cent

next decade.

than plant-by-plant basis.

was demonstrated by the recent term prospects. Uranium bas shutting off of Iranian oil. In the adjuntage over coal that it

Congress, there had been moves is easier to mine and produces

All these shifts had yet to combine into a major pronuclear movement. But senior officials at the Department of Energy were saying at the heginning of March that they felt that anti-nuclear sentiment had lost some of its edge, and industry believes it could instal industry by the end of this century to officials at the Department of day.

of exploration and the near with the threat of recession and

electricity more cheaply. On a

cost scale where uracium is 15,

industry believes it could instal

nuclear engineering

coal is 20, and oil 40,

The !

cooling liquid or gas fails to remove quickly enough the heat that is generated by nuclear

reaction Britain has suffered two melt-downs in gas-cooled reactors. The first occurred at Windscale in 1957, when many tons of uranium fuel caught fire and burned furiously for 24 hours. In that case the reactor had no enveloping pressure vessel to help seal in the radioactivity. Radioactive vapours escaped from the plant, but radiation levels did not exceed the maximum permitted by inter-

national regulations. The subsequent inquiry by the Medical Research Council concluded that it was "satisfied that it is in the highest degree unlikely that any harm has been done to the health of anybody, whether a worker in the Windscale plant or a member of the general

public. The second melt-down occurred at the Chapeleross nuclear power station, in a 55 MW reactor. No radiation was released, although tha reactor was seriously damaged. Unlike Windscale, the reactor was repaired and operating again a year later. Damage caused by a similar accident in a much bigger gascooled reactor in France in 1969 was also

The most dangerous substance likely to be released in any nuclear accident is radio-active iodine. More than 1,000 times as much was released in the Windscale accident as any other radioactive substance. A serious accident at a British nuclear plant would swiftly bring policemen to the doorsteps of those living nearby downwind of the plant, dispensing pills of an iodine compound. By taking these pills, people would saturate their bodies' needs for iodine and reduce the risk of their absorbing any radioactive lodine from the air,

and power generated if the enhantion of many available unemployment once the orders country is to keep going. How fields the burden will have to on its books are completed and vulnerable the U.S. is to the bone by other fuels. Only it has been mounting a powerful vagaries of foreign oil suppliers coal and uranium offer any long-lobby in favour of more nuclear

However, the fate of nuclear power has always hinged on the question of safety. That is why the Three Mile Island incident will be so damaging, evan. though the only victims so far are four workers who have been treated for mild exposure to radiation. But the question has become so tangled in the heat of debate that few can view itunemotionally.

# No nuclear

that the moment might soon be reactors on a commercial basis ripe for a major policy state early in the 21st century. However, the environmental Since nuclear power for lobby combined with uoecono- peaceful purposes got under mic circumstances had all way after the last war, there but stifled nuclear power has not been a single death in of its electricity and saving it 1.6m barrels of oil imports daily, worth at today's prices about 51bn a year. However, the dependence of the U.S. on foreign new orders were announced. average 200 coal miners are killed each year, and at least one person a year dies from gas leaks in New York where more oil is growing yearly, despite the Currently 129 power stations start-up of Alaskan production. are under construction or otherexplosive power runs through the mains in a day than was contained in the Hiroshima Unless domestic fuel sources are wise in the pipeline. They will developed quickly, the country all he completed by the mid-could be importing well over that of its total oil needs by the time, more orders will have to U.S. nuclear insurers have

paid out less than \$1m in claims since 1957, the year such insurance started. tic oil and gas production unto be maintained. Not surpris-certain because of the high cost inaly the industry is concerned

But as a close observer of the debate remarked "for most people nuclear risks are still in

the realm of witchcraft." This was horne out by a recent finding by the Roper Organisation. a public opinion research company, that 48 per cent of the population did not understand what nuclear power was all about. Given that people are rejuctant to confess to ignorance, that result is held to under-represent the extent of existing ignorance.

But if the public is confused the likely effect of Three Mile Island is clearer on Congress in whose hands the future of nnclear power probably lies. Senator Jackson and his energy committee bad been working towards greater acceptance of the need for nuclear energy. In fact the debata among its members assumed that nuclear power would go ahead and concentrated more on details such as how spent fuel should be transported and whether fast breeders should be cooled by gas or sodium.

### Doubts on new initiative

However, judging by the immediate reaction of Congress. men to the accident, any pronuclear initiative now must be under a cloud. There has been a succession of calls from Capitol Hill for closer monitoring and control of the nuclear power industry and suggestions that the barden of future energy development must be shifted from nuclear power to coal. The Chairman of the Senate

sub-committee on nuclear regulation, Mr. Gary Hart, who visited the strickened reactor with his staff last week, said he would introduce legislation requiring the federal Government to monitor reactors, and: assume full control immediately in the event of a crisis. ... At Three Mile Island, the

Pennsylvania. State anthorities: the plant management, and the Nuclear Regulatory Commission a federal agency, have all been involved, at times cutting across each other. Representative Morris Udal

has called his House Energ and Environmental sub-con mittee into session to takregulatory commission—whose own role is bound to come under scruting because of the crist Mr. Carter, who has never

been an enthusiastic supporte of nuclear power, may elaborat the U.S. from an accident at a his own position on the subject nuclear power station. On in his energy statement this week. So far, he has only said that the accident points to the need to review safety standards: a procedure which itself coulc take years. It therefore seems that

unless the Three Mile Island emergency can be resolved quickly—which seems unliked—and also safely, the cau-of nuclear power will have been set back by very may years-with possible grave co sequences to U.S. energy poli for the rest of the century.

### The timing of a political novel

There is a grimly prophetic quality about The Ballot, a novel due to be published on April 30, three days before the general election. Written by Rowland Summerscales, a retired Lobby correspondent, it describes a power struggle inside tha Labour Party after Parliament has heen dissolved and an election campaign is imminent. So the timing by the publisher, Robert Hale, is in itself remarkable enough. But one of the central incidents in the story is a political assas

I spoke yesterday to Summerscales, who was in the Westminster press corps for more than a quarter of a century— he is now 65. "The death of Airey Neave shocked me very much," he said. "But it did not surprise me. I baye always regarded it as obvious that the IRA would sooner or later try

sination by the Provisional IRA,

by means of a car bomb.

to kill a leading politician."

Summerscales finished off the first draft of his novel 18 months ago. Although he bas written four previous political thrillers under a pseudonym, it is 10 years since his last book appeared.

## Big bounce

Within a few years, company executives in far-flung offices will be talking to one another by private TV links. At least, that is the forecast of Sid Topol, who is in the husiness of pro-viding "earth stations"—giving access to satallite broadcasting -at costs he claims even individuals can now afford.

Topol has just been in London, briefing investors in Scientific-Atlanta, of which be is president. The corporation, which bas passed the \$100m annual turnover mark, was started by six professors from Georgia Tech with 100 dollars

When radar physicist Topol

were \$16m a year. But the prois tended to do wbatever took their fancy. So he paid \$2,000 a day to financial consultants and they steered him towards low-cost earth stations: he bas now sold

650 and is mass-producing them

at more than 80 a month. He has his eyes at the moment on America's estimated 300,000 dollar millionaires. Most have ranches, be says, and even now they could he tapping at least 15 satellite TV stations.

Given the nature of most U.S. television, that may seem a curious way to enjoy your wealth. But Topol is not con-cerned with the ends of his technology, but the means. As one of the bankers listening to him at the weekend remarked: "It's a bit bewildering—all those gigahertz."

### Blood and tar

With so much to worry about with remarkable aplomb, even over the "Muldergate" scan-trying to continue his 75-page dals. South Africa's rulers are hoping that an intensely domestic quarrel will not cause new divisions among thair followers. This is the public tarring and feathering of Professor Floris van Jaarsveld, most distinguished of Afrikaner

He was attacked on the plat-He was attacked on the plat- that is sacred," against the form of a theological con- desecrations of "dissipated farence organised by the academics and false prophets
University of South Africa. who hide under the mantle of
Leading the gang, which calls
itself the Afrikaner Resistance

Yet van Jaarsveld is the Movement, was a former police bodyguard of State President John Vorster.

The "crime" of Professor van Jaarsveld is to have sug-gested that South Africa should rethink its annual celebrations of the Day of the Covehant, wblch marks the Afrikaner victory over the Zulus at Blood River in 1838. He says that for some of the country's people the celebrations are an insult. The University has charges against the group which organised the tarring and

no sign of police action.



"Ever since Edge Hill, I keep getting calls from MPs in every sort of marginal."

trying to continue his 75-page learned dissertation. When one of the attackers tore off his jacket, be helped him with the "It was my hest suit, however," he admitted. The Afrikaner Resistance

Movement justifies the tarring and feathering by saying that it was a defence of "everything that is sacred."

author of a standard school history textbook which Englishspeaking critics have con-demned as "blatant Nationalist propaganda."

### On her heels

Mrs. Thatcher will not merely be contending with her political opponents in the weeks ahead: she will also have to face up to the fashion writers. 1 gather that sevaral of the popular papers have already decided to feathering. But there has been assign women reporters to the Tory leader-to keep the public The professor took the assault closely informed on ber clothes,

make-up and feminine demean ur at the hustings. The sartorial side of electioneering is treated in a decidedly male charvenist way, however, in a guide just re-leased by the Clothing Manufacturers' Federation, the Shirt Manufacturers' Federation —
And even the Tie Manufacturers'
Association It tells how to
score on TV, offering such
gems as the need to avoid
shirts with frayed or soiled collars, creased suits which look as if they bave been slept in, and odd socks or shabby shoes. It says that a dowd; candidate may turn a "don' know" into a firm "no." But perhaps the voters will

be pinced fery soon, the indus-try orgues if the momentum is

be so sated with the accounts of Mrs. Thatcher's style that the men will he able to stay as unkempt as ever, just letting the message speak for itself.

### Withy workers

Volunteers stepped in at the weekend to help preserve Britain's ancient craft of basket-making. It has lately been brought almost to a balt by a lack of the pasic materials; so the volunteers went to cut withies—as the branches are called-at Saxiby in Lincolnshire. The owner of the willow holt, or copse, is Charles Leggitt, a basket-maker all his life. But he is now too old to do the work

Mrs. Catherine Wilson, keeper the Musuem of Lincolnshire Life, led the volunteers. She says: "The skill of growing willow for basket-making is fast dying out. The holt had not been cut for three or four years.

The willow will be distributed to basket-makers who cannot at presant get supplies.

### Lost touch

The following announcement recently appeared in a Colorado newspaper: "Owing to unforeseen circumstances our daily boroscopa has been suspended."

**Observer** 

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# South Korea

South Korea's economic growth during the past decade has been spectacular, particularly since a high proportion of GNP still has to be spent on defence. The country's first "industrial revolution"-based on cheap labour-is no w coming to a close, and the economy is moving towards a greater emphasis on heavy industry. Meanwhile the authoritarian system of government continues to be a source of controversy inside and outside the country.

# goes on By Charles Smith Far East Editor

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THE LATE President Sukarno of Indonesia once described the last year in which his shaky regime held power in Djakaria as "the Year of Living Dangeras the year of Living Dangerously." For South Korea,
practically every year since the
postwar partition of the Korean.
Peninsula has, been a year of
living dangerously, but the
experience seems to bave been
invigorating.
South Korea lives in the
shadow of one of the largest

-concentrations - of - military power on earth (quite a large portion of which consists of its s own highly trained and heavily armed forces) but has still managed to build one of the most dynamic peculiary aged to build one of the most dynamic peacetime economies different things to different to be found anywhere in the people; to the bureaucrats in the prices department of th csions, or at least breaks, in their rate of economic growth) Korea's GNP continued to forga m he nuch habead (at the cost, admittedly

default on debts to the outside world in the early part of

most counts, as one of the most impressive examples to be coming to be known as a new and 25 per cent, and the industrial ecocomy in other Government cost of living index words; a nation which has moved from undeveloped to increase in the first two months almost developed status in the of 1978. very recent past and which seems destined soon to challenge the fully developed nations. The average Korean citizen of 1978 bear (in current prices) and can expect (if long-term Government projections turn out to be anywhere near accurate) to be four times richer again by the early 1990s.

It all seems too good to be true to western onlookers who become accustomed to agonisingly slow growth rates and to the apparently insoluble dated industrial structures. Yet Korea's high growth rate has brought its own problems, and some of them seem recently to have become fairly acute. It may not be too much to suggest that after a dacade in which the GNP has seldom expanded by less than 10 par cent per year, the nation bas now reached a major economic turn-

ing point supreme control over most officially, by 14.4 per cent during 1978, but the real increase is put at between 20 and 25 per cent, and the Government cost of living index registered another four per cent seas customers (the U.S., increase in the first two months. Europe and Japan in order of

### Crossroads

Tackling the inflation problem was approximately 18 times has meant not only using the better off than his 1960 fore-Government's sweeping price control powers to the tuli (as currently being done) but deliberately reducing the economy's growth rate through the imposition of tight money. The target is 9.5 per cent for 1978, but some observers think the economy may continue to gallop ahead at a faster pace however strongly the govern-ment applies the brakes.)
Dealing with inflation also means imposing severe controls on the amount of foreign exchange that Korean emporters may bring into the country (because too much foreign exchange might produce a dangerous impact on the domestic money circulation).

If one section of the Government sees Korea at a turning point in terms of domestic policy, another \$55m) to the late 1970s when they surged past the \$10bo

" cream." tance from Korea's main over-

The Ministry of Commerce and Industry, which has the unenviable task of sceing that export targets are met, admits that the amount of ingenuity required to do this is a good deal greater today than it was a few years ago. What is going to be needed in future is not just ingenuity but a fairly radical change in the make-up of Korean exports, with the emphasis shifting from "vulnerable sectors like textiles to the heavy and more sophisti-cated products where Korea thinks barriers in world trade harriers may cootlnue to be less formidable.

The switch from light iodustry to heavy industry and from labour-intensive to technology - Intensive products makes sense from another point of view as well. Korean labour, nace passibly the cheapest to be found in any Asian country where industrialisation was serlously under way, is no longer particularly cheap by regional standards—a fact which is hardly surprising after several years of consecutive 25 per cent wage increases.

which began to afflict Korea in with lextiles providing a basic export industries. The domestic factor. The economy begin to consider the terms on the second half of the last year.

foundation and the electronics solution to this problem is to has become more complex after after years of uninterropted industry (and to lesser extent upgrade the productivity of years of rapid expansion and expansion. Prices went up, the newer heavy industries such labour by switching into more can no officially, by 14.4 per cent as shipbuilding and machinery) sophisticated sectors: the questional small tion which concerns everyone now seem to have reached the either directly or indirectly point, however, where resis- with Korea's economic future is asking is: how quickly and easily can this be done?

If the switch is made easily purchasing importance), calls and quickly, which Korean for some fundamental rethink- officials claim is possible but which some sceptical outside observers (such as foreign bankers) obviously doubt, attention will shift to one other major problem which could (but it is hoped will not i block longterm economic growth prospects. Korea, like Japan, is a resource-poor country, with almost nothing to boast of in the way of nomestic mineral deposits, apart from rapidly depleting supplies of low quality

### Competing

To keep up with the 10 per cent rate of growth envisaged for the economy up to 1990 (which in turn is claimed to be necessitated by a 3 per cent aonual growth of the labour force. Korea will have to take Its place as one of the world's large importers of raw materials, competing with though naturally not equalling, the requirements of Japan and other lop industrial countries. To acquire such raw malerials may be possible but it will require more careful planning than Korea has put in up to now.

In tackling the new series of

can no longer be managed by a and dedicated government planthe first decade and a half or so of industrialisation.

the hands of the newly emerg-ing big business groups (with names like Hyundai, Daewoo and Samsung) than with the Economic Planning Board dureconomic development. however, he in the hands of very much the same types of people as before; in other words successful management of the economy will depend ou clever. highly educated young executives who will from now be working mainly within the private sector and to a lesser extent for the Government.

What no one seriously doubts. as the country contemplates the various optinns ahead of it loday, is that Korea must continue to grow, and must eventually challenge advanced western countries (including Japan) in some of their current economic "strongholds." The rationale for Korean growth is so simple that it is sometimes not believed, but it makes sense to everyone who has spent long enough in Semil to appreciate the intenslty of the South's struggle for power and influence versus the South Korea is engaged in a

race to best North Korea in terms of economic potential (and ultimately also in terms of military capacity) in prepara-

which reunification might ultimately occur. The race was a more desperate affair in the was predominantly agricultural highly industrialised. It is still seen, however, as a matter of life or death—at least by the men who control the economy and make the decisions that

Whether the northern challenge also means that Korca has continue to operate current highly authoritarian system of government is a more controversial question, and one on which a fairly deep (if publicly suppressed) cleavage of opioion exists within the country. Supporters of the "Korean style of democracy" upheld by President Park Chung Hee (including quite a few politicians who technically belong on the opposite side of the National Assembly) claim Korea cannot afford political turmoil while the North stands ready to "meddle" In the affairs of the South. It is also said that western-style democracy is not necessarily wholly suited to a society with strong Confucian traditions.

President Park's critics (who are to be found, most vocally among the university intelligentsia and in Korea's large Christian community) say that, while all this may be true, the effect of the system has been to satisfy the taste of a particular set of men for staying in power. perhaps after similar changes The arguments in favour of in the Northern leadership) is

more or less democracy in there any real likelihood that Korea will no doubt continue Korea will become a different aspects of the Korean economy) they surged past the \$10b0 Korea's cost effectiveness problems which seem likely to tion for the no doubt far off day korea will no doubt continue korea will occupie a spects of the Korean economy) they surged past the \$10b0 Korea's cost effectiveness problems which seem likely to tion for the no doubt far off day korea will no doubt far off day kor tn rage (and to be reflected out-side the country in debates on highly disciplined and dynamic

**Politics** North-South relations The Economy U.S. relations Links with Japan Trading companies Banking Energy

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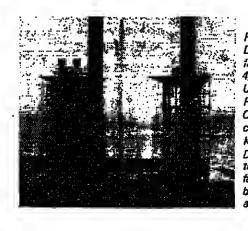
maiotain a military presence on the peninsula). What they seem unlikely to do is to change the actual political climate of the country-at least for as long as President Park and bis colleagues remain in power, At 61, and with 18 years Park is not exactly a newcomer, but he is probably also a good many years away from retiredrawal from the scene (and

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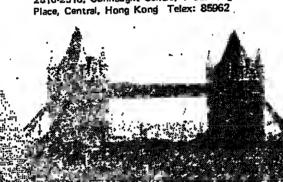
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# **Politics**

# Uneasy democracy

SOUTH KOREA'S political system bas evolved from democratic instability in the early 1960s to what President Park Chung Hee calls "Korean-style" democracy. In the process individual freedoms have been whittled down and the Government's bold on power bas been gradually but steadily

The system bas come in for wideapread criticism in the U.S., where the fact that U.S. troops are stationed in South Korea to protect a "free" political system makes President Park's authoritarian style of govern-ment an obvious target.

ment an obvious target.

At bome, the Government has been able to make a good case for the view that a firm band is needed to produce economic growth and ward off the northern "menace." Even so, the legitimacy of Korea's claim to be a fully democratic society remains a sensitive issue.

The electoral system is one

The electoral system is one area in which South Korea departs considerably from Western democratic models. The main legislative body is the National Assembly, two-thirds of whose members are elected by popular vote at six-yearly intervals.

The remaining third of Assembly members, however (the so-called Yujeong-hoe or political fraternity for the revitalising reform), are nominated by the President of the republic and then "elected" by a non-political electoral college whose membership requirements ensure a total noninvolvement in politics.

The same body, known as the lational Conference for for National Unification, also elects the president, who bolds office for six years. One individual can be elected to an indefinite number of presidential terms and President Park Chung Hee (who originally took power in a 1961 military coup) has just been clected to his fourth term of

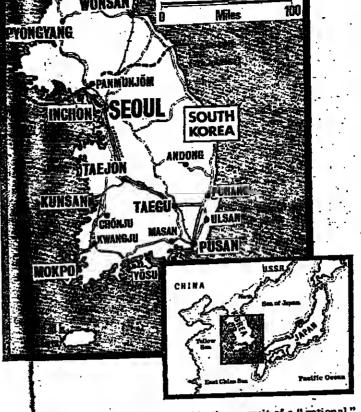
### Criticism

Another instance of dimi nished democratic freedoms is the fact that human rights, while theoretically guaranteed, are in practice in a state of suspeuse. This is because of the so-called Emergency Measure Number Nine introduced in 1975 which forbids criticism of the country's exist. criticism of the country's existing coostitution (the so-called Yushlo, or revitalising reform, constitution which was introduced by refercodum in 1972 which instituted the indirect system of presidential

arrested without warrant, as can violators of the older anticommunist law which forbids any form of pro-communist or travelling" activity within a fairly wide range of

The government does not publish figures for the number of political detainees under and is at a different stage of the extremely rapid improve-these regulations but it is development from the West. A meet in living standards in estimated that about 200 people second point made by defenders are in detention, leaving aside "short-term" detainees who may be called in for a few hours of questioning. Political prisoners are not known to be subjected to torture today, although physical maltreatment of prisoners may bave occurred in the past.

Press censorship in South Rorea operates through an informal system of "self-censorship" by newspaper editors, except in the case of a



tions which are subject to direct screening by censors. Its effectis to ensure that newsecho the official line closely on political or policy issues and to foreig mute priticism of some of the controversial aspects of government's economic

policy al respect in which South President Park's Koreas democracy differs from democratic Western is in the absence of elected local government. The level, for the two-thirds of the Assembly seats which are not presidential nomina-

sible the pursuit of a " rational " economic policy which places national interests.

Regional interests are claimed to have interfered seriously with economic policy-making before the institution of the nomination system in 1972.

The main argument against resident Park's "Koreanstyle" democracy is that the system seems to have served to perpetuate rule by the same individuals—or individual, given only papular elections held in that the president himself the country are on a national apparently exercises direct personal influence over a wide range of government decisions.

The government's monopoly partial substitute for of contacts with North Korea is another controversial result elected local government is to

### PARTY STRENGTHS IN THE NATIONAL ASSEMBLY

	Numb seats		Percent vot		
nocratic Republican Party w Democratic Party mocratic Unification Party ependents ependents	1978 73 61 3 22 77 231	1973 68 52 3 18 -73 219	1978 31.7 32.8 7.4 28.1	1973 38.3 32.7 10.3 18.7	

found in the Saemaul of the system, though one that stability. Those who violate Emergency Undooe (New Community)
Measure Number Nine can be movement whose leaders are choseo by "consensus" at village (or factory) level.
The fundamental justification

offered by the government for "medd withholding full democratic affairs. freedoms is that Western-style democratic forms are not "appropriate" for a country which bas different traditions of the system is that South Korea cannot afford "political turmoil" while it continues to face a hostile North Korea apparently dedicated to reunification of the country by force.

The intruction of an apparently parmanent government majority into the national

assembly (based on the onethird of the seats filled by presidential nomination plus those held by the pro-government Democratic Republican Party) is claimed to have made poshandful of dissident publica-

of chancels for dealing with simply Pyongyang would increase the north's ability to "meddla" in South Korea's

Yet another result has been

to enable the government to determine very precisely who should benefit, bow much, from South Korea during the past few years. The government seems to have used its powers in this area to ensure that the rural population bas not been left behind in the race towards with a bandful of top business leaders, at the expense of fcr stability. smaller entrepreneurs and their

system comes, most vocally, from the so-called dissidents who have made a point of affack, ing the Yushin constitution (despite the ban on criticism incorporated in Emergency Measure Number Nine) and who bave sometimes been arrested for their pains.

The dissident leaders include former presidential candidate.

Mr. Rim Dae Jung (who provided a strong challenge to President Park in the last directpresidential election in 1971 and who was released from "hospital detention" just before the end of 1978). "Rank and file" dissidents are to be found in the Korean Christian community and among teachers and students—but many of the latter apparently graduate in become dedicated employees of t the business establishment which provides the main private level support for the Park

Parliamentary opposition to the Park government is provided by the New Democratic Party (and by the much smaller, National Unification Party). The NDP under its "middle of the road" leader Mr. Lee: Chul-Seung, azys Korea has to maintain a "balance sbetween national security and individual liberty" and has confined its critcisms of the government's emergency regulations to debates within the National Assembly.

A more vocal wing of the NDP, led by Dr. Kim-Young Sam, the party's former chairman, has attempted to stir up public opposition to the emergency rules and to South Korea's general failure to "measure up the standards" of Western democracy. Dr. Kim claims to have had an enthusiastic response from the half million South Korean residents of the United States but has found his political activities

inside South Rorea handicapped

by indirect government action.

The views of ordinary people about the present political system remain something of a mystery. The fact that the NDP secured a marginally larger vote than the pro-Government Demo-cratic Republic Party in last. December's elections to the National Assembly presumably. should be read as a mild criticlsm of the regime—though it would appear that voters were protesting more against price rises and a recently introduced value added tax than against the Government's stand on the basic issue of democracy versus

sibly have disturbed the Governi ment more than the NDP success, was the participation of very large number of inde-pendent candidates (255 as against 161 candidates of off cially registered parties) and a sbarp increase in the independents' share of the total vote.

South Korea'a electoral law are rigged against independen candidates, who have to pay higger deposits than registered party candidates and bave les freedom to campaign. The fact that so many people chose never. theless to stand in the election better living standards and to and that so many voters went to prevent too large a gap opening the polls (more than 80, per between skilled and unskilled cent of the electorate) suggests wage earners in industry, that South Koreans have not Somewhat controversially, it lost their taste for democracy has also forged a close alliance no matter bow much the Govern ment would prefer them to opt

Charles Smith

# North-South relations

employees.

# Major differences remain

munist and a non-Communist North). Government continue to be conducted in a style reminiscent of likelihood of a military flare-up the 1950s. The Government of President Park Chung Nee in the South has no relations, either official or unofficial, with that of President Kim Il Sung in the North. Movement across the Military Demarcation Line, which divides the two halves of tions") and the North declar-the country is forhidden, and ing that war is unlikely. What there is no telephona link or exchange of mail

The concentration of military power along either side of the Demarcation Line (or to be exact to the north and south of the four kilometra wide Demilitarised Zone) is one of the heaviest in the world, involving over 1m men and more than 1,000 fighter aircraft (to say nothing of American nuclear warheads). Almost the only concession that North and South have made to the changing favours a step-by-step approach mood of the 1970s is to withdraw a ban on the adoption of a "two Koreas" policy by the outside world. South Korea currently has diplomatic relations with 105 governments while the score for North Korea (accord- seem to be the kind of men who ing to southern sources) is 93.

a country which wishes to main-

along the Demarcation Line, with the South claiming that such a thing could quite easily happen (the tunnels dug by North Korez under the DMZ are cited as evidence of the North's "aggressive intenno one appears to disagree about is that the odds against a peaceful reunification of the country are enormous—at least while the present leaderships

remain in power.

The Northern formula for reunification, establishment of a confederation which would seek joint membership of the United Nations while the existing authorities continued to run things in their own way on either side of the frontier, is anathema to the South, which starting with exchanges of mail and the reuniting of divided families. . Because the differences are so

wide, and because neither Presiwould willingly step aside in These figures imply a consider-able overlap—in other words occasional negotiating sessions there is no problem today for that have been held between the two sides are apt to be dismissed tain embassies in both Pyong- by outsiders as meaningless

that might improve its image in the outside world. This intar-pretation may be correct, but it overlooks the fact that meetings of any kind between North and South are sufficiently rare to deserve attention-and to justify speculation on what might bave promptad the two aides to start talking. The most prolonged, and

promising, series of contacts to have taken place between Pyongyang and Seoul since the Korean armistice were held in 1972 and 1973 when a series of secret high level contacts offer, partly because it repeats between the two governments led to the establishment of a semi-official South-North Coordinating committee (whose meetings ran for about a year before being unilaterally boycotted by the North). The next the Northern package. occasion when the two sides showed interest in talking to each other was in January this year, when President Park announced his Government's willingness to meet the North at any time, and place and at any level," and North Korea responded with an elaborate set of proposals for the reduction tensions and eventual reuni-

fication of the country.

The Pyongyang bineprint, which was discussed at series of abortive meetings between the

THE KOREAN peninsula is one nang and Seoul (provided it rituals, indicating, at best, that two sides in February and of the few places in the world does not bappen to be a major one side or the other is trying where relations between a Combern the South or the suspension of propaganda broadcasts by of propaganda broadcasts by both sides, the termination of "hostile military movements." on either side of the Demili tarised Zone, and the covening in October of a "grand national congress" in Pyongyang st which decisions would, it was boped, be taken on the North Korean plan for the formation of a confederation:

Although South Korea fielded a team to discuss the Northern proposals (and to put its eval counter-proposals), its spokes men have dismissed the North Korean move as "fake " pead old proposals that had alread? been dismissed by the South (the confederation idea; 48 example), and partly because of the obviously tactical nature of some of the other elements in

The proposal to suspend hostile military movements of hostile military movements of either side of the DMZ at the beginning of March seemed 10 be quite clearly designed to pur o spanner in the works "Operation Team Spirit;" joint U.S. South Korean militar exercise which was due to se that month (and which did it fact take place despite Northern rotests). The suspension of protests). The suspension of propaganda broadcasts proposed by Pyongyang referred & Government radios but the

CONTINUED ON NEXT PAGE

The economy

# change of direction

SOUTH KOREA may not quite describe in the ranked as the most remarkable economic streams ance into lioe wilb the planned the most remarkable economic streams ance into lioe wilb the planned the most remarkable economic streams ance into lioe wilb the planned the most remarkable economic streams ance into lioe wilb the planned the most remarkable economic streams ance into lioe wilb the planned the most remarkable economic streams and the expectation probably should go to Talwan which has achieved almost as much growth with a common and opportunity in seriously to overheat lice in provide jobs and opportunity seriously to overheat lice in the common. The efficial cost of the seriously to overheat lice in the common ment plans gradually to plass and the difficult years since the 1873 in order to "catch up" of the late after a decade of the continue to "deliver" a high still arc, signs that years of high by major local manufacturers, but was obliged to allow many are problem the Government in the extractory public whot the Guvernment of the exaggerated in the continue to "deliver" a high still arc, signs that years of high by major local manufacturers, pression of the overall inflation by major local manufacturers, pression of the overall inflation. To deal with the Guvernment of the overall inflation by major local manufacturers, pression of the overall inflation. To deal with the Guvernment of the overall inflation by major local manufacturers, pression of the overall inflation. To deal with the Guvernment of the overall inflation by major local manufacturers, pression of the overall inflation. To deal with the Guvernment of the overall inflation by major local manufacturers, pression of the overall inflation. To deal with the Guvernment of the overall inflation. To deal with the Guvernment of the overall inflation by major local manufacturers, pression of the overall inflation. To deal with the Guvernment of the overall inflation. To deal with the Guvernment of the overall inflation. To deal with the Guvernment tainly ontclasses virtually every other country in the world because of its sustained record of high economic growth and its economic development, spectacularly increasing exports.

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Mr. Lee Korea has in

Korea's GNP was worth just over \$2bn in 1961, the year when Park Chung Hoe seized power in growth after three years of ultra-Seoul in a bloodless military rapid expansion. GNP growth action of this year GNP should be worth \$556bn. Major-General (now President) Exports were \$50m in 1961 but bit \$12.7bm in 1978 and are renti; gradu. I scheduled to reach \$15.5bn in 1979 Per capita GNP, which was a mere \$82 when General Park marched into Seoul, will be \$1,500 by the end of this year,

> North Korea to establish a strong economic and political system, with the alternative to failure the probability of eventual unification of the Korean peninsula on Pyongyang's terms.

The race today looks substantially won—the South Korean economy would appear to be between four and five times as large as that of the North in absolute terms, while individual Koreans are probably a few budget hundred dollars per head better. In deciding to put on the off than their northern counter brakes in late 1978, South parts. That does not mean that Korea's economic planners were the South can afford to call a not simply attempting to bring

based economy South Korea has been now reached a turning point in

that South Korea is adjusting to years up in the end of 1978, almost certainly the highest rate for the period achieved by any conotry in the world of com-parable size (although Taiwan just edged out S. Korea in the economic growth stakes for 1978 alone). The Fourth Five Year of the The simplest and best explanation for Korea's economic achievement is that growth was, and is, a matter of survival. For the past 25 years South Korea has been "racing" its neighbour North Korea to establish a strong economic system. to cut back its growth rate to more "moderate" levels. The current year's growth target is 9.5 per cent and will be achieved (or possibly over achieved), not by stimulating the economy, but by a fairly severe set of deflationary policies including the imposition of a right money

policy (in force since the second half of 1978) and a balanced

living costs is thought to have been considerably higher, perhaps as much as 20 to 25 per

The immediate cause of this. rather worrying bout of inflation is thought to have heen the massive increase in money supply which occurred in 1977 per cent in the case of \12). per cent in the case of M2). This occurred despile a series of Government curhs, including a freeze on the repatriation of roughly 80 per cent of foreigo exchange earned by con-truction companies, and a deliber, ately "engineered" deficit on the current account of the the current account of the halance of payments.

The Government hopes to bold this year's increase in coo- successfully

The aim is to keep the prices when Korea's mexpected plies 55 per cent of energy success in winning Middle reads of the general price structure brought a flood of foreign exchange into the country. The money supply rose by 40 per cent io 1977 and was still the country the the country of the year. Another problem that could prove harder to per cent last year (or 14.5) and the covery that the covery time to talk of the need to maximise GNP growth rates in drastic increase in the number of import barriers erected in increased in the labour force. In the short term, however, there seems to he no question that korean emptoyers face a market for labour.

Wages have been going up avoiding these dangers is to by around 25 per cent per year avoiding these dangers is to

> says the Government has deli-berately kept farm prices high in the past few years (in order to prevent too rapid a move-ment of the rural population into the cities). It also admits that a policy of going all-out for self-sufficiency in rice (now successfully achieved) has

rate of increase in money supply meat and vegetables.

cducation, so as to increase and thus in the long run make complex by the early eighties to down to a "steady" 27 per Prices of some vegetables skilled manpower supplies.

the economy less dependent on respond effectively to central-cent for both 311 and 32. It rocketed by as much as 50 per Lahour shortages in some imported raw materials and ised control by a handful of

A third major symptom of of such items steady at their nverheating has been a sharp new levels during most of the change in conditions on the remainder of 1979 but this could labour market. Korea regarded turn out harder to achieve than itself as a country with a the Government appears to chronic excess of labour until believe. Higher prices for two or three years ago and imported crude oil (which supplies 55 per cent of energy tinue to talk of the need to needs) still have to be reflected maximise GNP growth rates in

seems to expect involves the by around 25 per cent per year stabilisation of Korea's rapidly for the past three years, with rising farm prices. The Economic Planning Board

to solve the overheating probblems-and there is no reason. given time, to doubt that the problems will be solved—the prospects for the Korean economy will hecome very much a matter of what happens in the outside world. Growth to its next phase of developcould be studted during the ment.

hring about a shift in the struc-ture of industry from tighter such investments also make a and more labour-intensive profit. The EPB expects to have rates for skilled or managerial and more labour-intensive profit. The EPB expects to have workers. The Government has sectors into capital-intensive or to ebandon this type of planning been encouraging small com-skill-intensive sectors. By doing in the next phase of the punies in increase the wages of this it hopes to diversify country's development in favour their lowest paid workers so Korea's exports out of the of a more general approach as to avoid a (politically danareas (such as textiles and electrosecond on resource allocation gerous) increase in differentials (tronics) in which protectionism and the setting of broad targets between high and low paid is a major problem. The shift for the development of major sectors of the community. It is towards high technology indus-sectors. It will have to relax its also, as matter of pregency, tries would also increase the grip on the planning process for sumer prices to between it and tended to produce shortages of taking steps to increase enrol- amount of vatue-added in the very simple reason that 12 per cent and to keep the other types of food including ment of students in higher Korca's manufactured exports Korea's economy will be far too education, so as to increase and thus in the long run make complex by the early eighties to

will he able to rise to the challenge of turning out computers instead of black and white TV sets and textiles. What it appears to feel marginallyless certain about is its own role in piloting the country through

### Supervised

Hitherto Kores bas bad one of the "Free World's" most tightly supervised economies, with the Government initiating almost every major investment by the private sector and wielding enough power to ensure

buresucrats

The EPB's general air of confidence could mask a few doubts about the future. Not everyone agrees that Korea will make the transition to high technology industries as easily and rapidly as it switched from an agriculture-based to a light industry-based economy between 1965 and 1975 "The Koreans think they can start turning out turbo-generators to six years. Our experts think it might take 25 years" is how a diplomat at the Seoul Embassy of one of Korea's major Western trading partners expressed these doubts recently. There are also a variety of views on the seriousness of the protectionist threat to Korea's exports, which constitute a vital

Korea does not pretend to be inconcerned about pro-tectionism. But the planoers who opted for high growth and rapidly growing exports at the risk of becoming over-depen dent on world trade could still turn out to have had sounder instincts than advocates of a more cautious strategy. Other couotries besides Korea have been making a dash for growth in the past few years on the assumption (which could well prove to he correct) that exported expansion policies will prove harder to pursue in the eighties than in the seventies. Whatever happens, Korea is unlikely to have any reason to regret that it joined the race.

3ā per cent of GNP.

Charles Smith

# Differences

CONTINUED FROM PREVIOUS PAGE

theory North Korea could be its band.

The Wife feeking to Horestall pressure A second policy option would which may post from China for the normalisa be to switch to a full-blown tion of North South, relations, peace strategy — in other that China was urged to use its good offices, in this direction hen Vice Premier Teng Hsiao mg made his recent trip to

Washington Another North Korean objecive could be to reasure the the merican public of its peaceful utentions towards South Korea e time when the future of resident Carter's plan for the difficulties of U.S. troops from he South seems very much in he balance. Finally, and most nurguingly, there is speculation har the North might have been naying second thoughts about its traditional policy of relying on the maintainance of decisive military superiority over the South to bring about ultimate reunification.

The point being made here is not that North Rores does not wish, to maintain military superiority, but that it may be reaching a point in its economic development where such a policy is no longer viable. North Korea (according to South Korean intelligenca sources, which may not necessarily be correct) spends between 20 and 25 per cent of its GNP on defence, whereas the south claims to spend around 6 per cent. However, the South's GNP has been growing considerably faster than that of the North and is now that of the North and is now possibly five times as large (about \$46bn in 1978 compared with the (very roughly) estimated northern figure of \$6hu.\$9hn). This would appear to mean that the absolute level of defence expenditure (as opposed to the ratio of defence to GNP) mey now be roughly he same in both halves- of Korea, with the South tending

to catch up on (and overtake)

Northern defence spending. Southern analysts claim that the cumulative total of North Korean defence spending since the end of the Korean war is between two and two and half times that of the South. The North also has more men under arms, even though its population (estimated at 17m) is to whom Russia is a large and barely half that of South Korea. alarming neighbour, with an un-The North may continue to have a larger army for the foreseeshie future, but Northern firepower, according to southern Japanese sea and air space. The analysts, could be evertaken by that of the South by the mid-1980s if present trends continue. This will remain true even if American intelligence is correct in its recent reassessment of Northern armed strength (according to which the North may he about 35 per cent

If South Korean analysis are ight in believing that the forth may eventually lose its ntitury edge, the North would em to have three policy ptions-none of them easy or

remething of the Me South Korean Tiberation radio station which, apparently Korea, taking advantage of the personnel of the motives for the northern lies only against by presumal the motives for the northern lies only against by peace move which is circulating against by peace move which is circulating against by peace move which is circulating to the northern lies only 35 miles from the hat rolers were peace move which is circulating against by presumal the south. Second suggests that various the motives for the northern lies only 35 miles from the nilitary demarcation line but there would be a danger of (possibly nuclear) regaliation from U.S. forces in or near known which korea could be instant.

words to make a real attempt to reduce tension in Korea and promote normalisation of con tacts between the two halves of the country. The third alternative open to North Korea would seem to be change its economic policy: in other words Pyongyeng might start doing, for loans and other forms of assistance which would enable it to modernise and expand its economy.

Recent speeches by North Korean leaders, including President Kim II Sung's New Year address, bave indicated a growing concern with economics and with the expansion foreign trade (not just with communist and Third World countries, but with all countres). However, there is no real indication that Pyongyang is planning to emberk on an open door economic policy similar to that adopted by China. One reason why this would be difficult is that the North is already heavily in debt to western creditors (with more than \$1.2bn owed to Europe and Japan since the end of 1975)

and is thus in no position to ask for fresh assistance. If North Korea is not in position to "do a China" terms of its economic policy, and if it lacks the audacity to pursue the opposite extreme of lannching a surprise attack on Seoul, diplomacy would seem to be tha main area in which scope exists for new policy initiatives The North's biggest diplomatic asset at present would appear to be the fact that it is on reasonably friendly terms with both China and the Soviet Union and is thus in a position to be Chinese and the Russians, but by any other power which hopes to prevent the emergence of a

strong Moscow-Pyongyang axis. One nation which would certainly not wish to see North Korea aligning itself firmly with the Soviet Union is Japan, to whom Russia is a large and comfortable tendency to send warships and fighter aircraft into areas hordering on U.S. also has good reason to dislike the prospect of a Pyongyang-Moscow, alliance, since one of the first benefits likely to accrue to the Russians from this would be the acquisition of a navai base in a north Korean warm water port. The Russian card may be the strongest one stronger than was previously that Pyongyang holds at present; but it may still not be strong enough to give North Korea the upper band in its battle to gain power and

influence versus the South.

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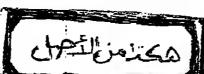
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# U.S. relations

# Tensions have eased

The speaker was Mr. Richard Korea from launching an inva-Holbrooke, U.S. Assistant Secre- sion attempt during the past 10 tary of State for East Asian and years. Pacific Affairs, giving his estimation iduring a visit to Seoul on deployed in the 25 miles of billy are applied to freedom of speech March 17) of the state of U.S .-Korean relations. Mr. Hoibrooke went on: "We bad a culmination, which forms the border between of stresses and crises which could have torn the treaty alliance apart . . . I refer to the so-called 'Koreagate' problem, to the congressional scandals, to grave misunderstandings and concerns—which we felt were exaggerated but nonetheless. were real-over the troop with-

were real—over the troop windrawal policy and to the question of human beings individual freedom and dignity.

"The later part of 1978 showed a significant improvement in these areas... we view 1979 as a year for streogthening the relationship.
"We assess the U.S.-Korean

relationship as having been on an ascending curve over the last few months. . . . now things that do go up can go down and I don't want to leave the impression that I am predictiog a smooth course or a trouble-free future because that clearly is ery difficult in a situation that is as fundamentally complex as this one. But basically things have gotten much hetter and we believe we have weathered the erisis.'

No one could suggest the Assistant Secretary of State was glossing over the extreme tensions that had marked the relationship hetween Washington and Seoul during the past 2: years. The tensions were at times extreme, reflecting the very high degree of dependence that South Korea has had no the U.S. for the past 25 years and the sudden realisation—on both sides—that the relationship had changed fundamentally.

Recognition that the tensions have now eased and that the new relationship is being accepted will come later this year with the visit to Seoul by U.S. President Jimmy Carter, following his stay in Japan to take part in the developed nations economic summit meeting in Tokyo in

Although the visit will he brief. Mr. Carter and South Korean President Park Chung Hee have a great deal to discuss. The policy adopted by the U.S. Administration as soon as Mr. Carter came to office of the

"I THINK 1977-78 was as tually all Koreans that it is only criticism the U.S. President is issue no longer raises the leadifficult a period between treaty the presence of U.S. ground bound to make of South Korea's it did in 1978 and 1977.

The speaker was M. Bisham forces that has prevented North human rights record. Just how

country that separate Seoul from the demilitarised zone (DMZ) north and south. Because of the nature of the terrain along the DMZ, any invading force would have to pass through the area garrisoned by the Americans, thereby immediately involving the U.S. in military operations

alongside the South Koreans.

Despite frequent and public assurances by the U.S. in the past few years that there will be no reduction in U.S. air or naval forces in the Korean region, and despite a US\$ \$00m programme to beef up the military hardware of the South Koreans, Seoul remains unconvinced.

Early in March. Prime Minis-ter Choi Kyu Han told the mericans that "it is our sincere hope that (you) will deal very future troop withdrawal in view of the rapidly changing interintional situation and the addi-

The Koreans were certainly

some observers this seems perfect excuse that Mr.

the policy will be delayed until Mr. Carter speaks with President Park, and few doubt that the "discovery" of the extra northern divisions will see Mr. Carter's unpopular campaign

Mr. Carter.

of government in the U.S. is not applicable to South Korea.

### Hope

Jung, whn has become a symbol prudently with the question of tional military build up in North Korea so as not to disrupt the military balance on the Riprean peninsula."

not reassured when a recent re-assessment by the U.S. of intelligence data showed that the orth Korean army bad about 179,000 more men and considerably more tanks than had previdusly been thought. It gave the pause as well, and the tropp withdrawal programme heen "held in aheyance". pending further analysis of the reabrts.

Carer needs to drop the withval policy, which has me increasingly unpopular in the U.S. Congress and has never heen accepted by the

If seems likely that any annuncement on the future of

Mr. Carter will raise the issue is uncertaio, but it is accepted by both Korean and U.S. officials The bulk of the U.S. forces are that the severe restrictions that and political activity under the Yushin Constitution and emer-

gency decrees drawn up by President Park will be raised by Very few contacts between U.S. and Korean officials take placa without human rights issues being mentioned in some form. Tha Koreans feci the Americans are ill-informed about the concept of civil rights in a society such as Rorea, and that what may succeed as a form

However, they realise they can-not simply ignore such a funda-mental part of Mr. Carter's foreign policy. Seoul took a major step at the end of last year to ease this irritant in its relations with Washington by releasing from detention more than 1,000 political prisoners, including former Presidential candidate Kim Dae

among U.S. liberals of the Korean dissident movement. Although Mr. Kim has heen closely watched since his release he has been able to criticise the Park Government without incurring anything worse than warnings that he is breaching

his parole, Mr. Kim's release was seen in Korea as heing the result of continuing U.S. pressure and directed at U.S. opinion which was turning away from Korea in the aftermath of normalisation U.S. relations with Peking. Mr. Kim himself has played on this and on the coming visit of Mr. Carter to keep up his criticism of Mr. Park, and has asked for the opportunity to meet Mr. Carter when he visits Secul-a request that is unlikely to be

granted Whatever Mr. Carter's comments on human rights, they will only represent a continuation of existing pressures, so they are certain to be accepted with good

One area Mr. Carter will not have to worry about is the so-called Koreagate scandal in which rice-dealer Park Tong Sun and former Korean amhassador to Washington Kim Dong Jo were implicated in allegations of hribery of U.S. senators and gradual withdrawal of the groups strapped.

Koroa by the early 1980s has caused intense and continuing anxiety in Korea. There is a firmly held belief among vir Carter needs to counteract.

On nevery of C.S. senators and representatives. Although extensions in the U.S. to near relations remain on last year finally ostablished that an "accending enrye." It may some illicit payments had been also be the goodwill gesture Mr. made—and legal marbinery is still moving on some cases—the representatives. Although extensome illicit payments had been Helbreoke forecast

The demand by the U.S. Congress that Mr. Park and Mr. Kim appear before its cammittees in Washington, brough relations between the U.S. ani Korea to a very low level, Seou initially resisted persistent U.S. pressure before allowing Mr. Park to testify, with persona immunity from prasecution. Me Kim Dong Jo never made the trip to Washington, and in retaliation the Congress vetoes

\$56m of food aid. Mr. Carter may face a more testing time when the anbit turns to economic relations. In this area, as much as in military affairs, there has been a fundmental change in the relative

The rapid economic grown of South Korea in the 1970s ha changed the ties with the US from those of dependence in those of balance—although ret to the extent that U.S. trale officials would like, as Kora last year recorded a trade sa-

plus with the U.S. of \$1.1bi.
The largest segment of this trade is in textiles and garmens. araas which in the U.S. are now subject to intense protections lobbying. Although the two countries have a three-year tutile trade agreement giving quotas and an amount of growth to the Korean industry, there are continuing efforts at tighten-ing controls which the U.S. a-dustry claims are being bypassed.

Tha Koreans are trying to bead off some of this trade friction by purchasing, with accompanying fanfare, consider. able quantities of American commodities. Later this year Seoul is sending a big buyion mission to the U.S. to sign u suppliers of goods ranging from biscuits to machinery. Whether these daals would bave bee made anyway is a matter dehata. .

However, the U.S. does so new openings for its producin the medium to beavy inditrial sector of Korea. Notale power plant ad nuclear machine tools.

If Mr. Carter's visit to Send can reassure the Koreans there is no wavering in the military commitment to Som Korea, while bringing homo need for the U.S. to main a reasonable balance in trading U.S. Korean relati with indeed maintain "ascending curve" that Reci-

Ron Richards

# Links with Japan

# Trade friction increases

exports (absorbing goods to the value of 60 per cent of Japan's exports to the whole of the exports (absorbing goods to the value of 60 per cent of Japan's exports to the whole of the EEC). Add to this the fact that Korea has borrowed from Japan many of the successful development policies pursued over the past decade, and one can see that the two countries have done a good deal to contribute to each other's progress.

aspires to displace Japan from could export to the United its position as undisputed world market leader in industries such as shipbuilding and consumer electronics—or at least to chatlenge that position with its own cheaper products. There is also a feeling that by beating Japan at its own game, if such a thing becomes possible, Korea will be getting its own back for labour is a good deal less cheap before that the Koreans spent

The post-war relationship be-tween Japan and South Korea dates, for all practical purposes, Chung Hec successfully tackled the issue normalising diplo-matic relations with Tokyo. (His predecessors had ducked the issue because of a strong popular antipathy against lapan.) From the time of normalisation onwards Japanese loans and investment began to flow into Korea in rapidly in-creasing quantities, and Korea

23

participation in about 340 nics and other light manufactur-separate enterprises, ranging ing industries. small-scale assembly

SOUTH KOREA and Japan are complexes. The Japanese in Korean joint ventures (some of than the overall percent close partners in one sense and vestment in such ventures which are obliged by their terms. Increase in Korean exports bitter rivals in another. Japan's represents about 60 per cent of of operation to concentrate pro- ing the same period) stake in the fast growing the total value of foreign curemont in Japan). The Korean They might well have growing the total value of foreign curemont in Japan).

ribute to each other's progress.

The rivalry is a mirror image of the partnership. Korea which Japanese companies of the partnership. Korea which a Japanese companies aspires to displace Japan from could export to the United

will be getting its own back for labour is a good deal less cheap several centuries of history in than it was. There is still which the Japanese have very scope however, for technology-definitely bad the upper hand. Korea was a Japanese cotony for 36 years up to the end of nese partner acquires a stake nese partner acquires a stake World War It and has not for-gotten the severity with which return for providing know-how. the colonial rulers tried to it also appears that Japanese impose on a reluctant local empanies with Korean joint population their language and ventures in consumer elec-Two hundred years tronics or other light industry supplies of cheap Japanese sectors may bave started using years fighting off a series of Japanese invasions which devastated much of their country.

The post-war relationship be
Traduced by Kayaan labour.

The post-war relationship be
Traduced by Kayaan labour. produced by Korean labour).

Because of Japan's investment

presence and because geogra-phical proximity gives it a strong competitive advantage in torms of freight rates and dalivery times. Japanese goods have outpaced western products in the Korean market for the past decade. Japan supplied 44.5 per cent of Korea's imports in 1967 and still held a 40 per cent share in 1978, despita a conscious effort by quickly became dependent on Korea to diversify imports. The Japanese supplies of semi-pro-bread-and-hutter of Japan's ressed industrial materials to feed its textile and other fast growing light industries.

Japan's investments in Koroa

Japan's investments in Koroa

Japan's investments in Koroa tako the form of joint venture of components for the electro-

from small-scale assembly A significant portion of the operations to major petro-total appears to be brught in chemical or heavy industrial under contract from Japanese-

stake in the fast growing Korean economy, through trade and direct investment, is far larger than that of any other nation and Korea is the second largest market for Japanese exports (absorbing goods to the value of 60 per cent of Japan's

presence has also produced the converse result of stimulating Korean exports to Approximately one-third of Korea's exports to Japan in 1978 consisted of textiles, whose value was far ahead of any other country's textile sales in the Japanesa market. The bulk of the chimatete. of thes shipments appears to have como from Japanese-Korean joint ventures estab-lished in the early 1970s at a time when high lahour costs were undermining the ability of the Japanese textile industry to supply on its own domestic

market.

Korean officials are honest enough to admit that thoir country owes a good deal of its recent economic success (particularly during the early stages of industrialisation) to Japanese investments and to regular and has been doing. materials. This does not alter bilateral trade, which has grown continuously and rapidly since 1975 and which, last year, was almost double Korea's global trading deficit (\$3.35bn compared with an nverall visible trade deficit of \$1.8hn). Japan'a exports to Korea in

(nr perhaps even because of) the fact that the yen was appreciating rapidly against the wnn during much of the year... There is evidence that Korean importers rushed to Jananese goods during the first half of 1978 in order to avoid Jananese goods during the first tive devices which are half of 1978 in order to avoid ostensibly directed having to pay the higher pricos Japan neverthelesa seeming that were expected to result

and processed silk. Japan d not maintain barriers agai Korean textiles and electron products of the kind which a now becoming general h Europe and the U.S. However Koroan manufacturers of man types of light industrial god market fairly hard to penetr

market fairly hard to penetral (with a few notable exceptions such as the tyre industry). However much South Romanight wish to achievo a better balance in its trading relationship with Japan, there is probably nothing it can do then would change the relationship. would change the relationship overnight. The changes of Korea persuading Japan in it its restrictions on fish import appear slim given the strength and the relative lack of war in which Korea can bri pressure to bear on Japan will out damaging its own econ interests. What Korea ca restrict Tapanese activity through various of of "administrative guidal

Korean importors of machinery encouraged during the pa years to make their pur Europe rather than At the same it would that Korean companies ing partners for newventuro projects have be told to look elsewhere said Japan. This could be o Japan'a exports to Korea in reason why Japan at 1978 grew by 52 per cent despite for only 38 per cent in foreign investment in during 1978 | in contract lative foreign investments up tho end of 1977).

A series of other a miles served in practice to him from revaluation. While Japan expansion of Japanese must be activity in Korea. One increase In its sales to Korea, is the Korea. Trade Transports to Japan ruse Law, which obliges by a much more modest 22 per trade companies to seek percent (that is by a slower rate mission from the Korea.

CONTINUED ON NEXT FAGE

Group system wins more exports

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comand by the control of the control

registered GTCs in 1978 and has and more of Korea's leading 12 today (one dropped out at the beginning of the year after queue to win GTC status: failing to meet the conditions The 1979 qualifications infor GTC designation). The clude: exports equivalent to at exports last year and probably company); sales of at least five will sell more than 40 per cent different items to reach or eximally 1979.

they are also a helpful and positive element so far as the rest of the economy is concerned.

concluding that the far-flung fore could not be expected to processing of export contracts by the Government to acquire branch networks of Japan's equal the turnover of competi-

MANY COUNTRIES, including sogn sosha had a lot to do with tors dealing in bulk orders. A The list of privileges and tending to draw within their mexico, Singapore, and retained the global success of Japanese second company, Hanil Syn-immunities granted to GTCs orbit more and more small and copied or considered trying to GTC status in the first year was copy the hitherto unique institution of the Japanese general trading company (sogo qualified (Samsung Company, shosha in Japanese). The only the long-established trading arm country which seems in have of the Samsung group): In subsucceeded is South Korea.

The requirement for thetic Fibre, scraped through does not provide the full medium-sized concerns which seemed that exports should exceed the authorities that its indirect that its indirect should exports of artificial fibres trading companies can show a profit, despite the enormous overall planning and co-ordination for the groups of a big overseas branch network which they are members, succeeded is South Korea.

The CIPC is the full medium-sized concerns which the system find themselves in need of works and why Korean general powerful friends. In a majority trading companies can show a profit, despite the enormous overall planning and co-ordination for the groups of a big overseas branch network which they are members. succeeded is South Korea.

sequent years requirements were recorded in the customs staffed by highly paid executives.

South Korea bad 13 officially- stepped up considerably as more statistics.

business groups joined the

group of companies bearing least 2 per cent of the national this privileged and exclusive export figure for 1978 (this label sold 32 per cent of Korea's works out at about \$254m per ceed Sim-worth per item; an international branch network of This is enough to prove that at least 20 nffices; and public the GTCs represent a major quotation of the company's element in the export-oriented shares on the Seoul Stock South Korean economy. Whether Exchange.

The 12 CTCs registered by positive element so far as the rest of the economy is concerned is still partly open to question.

South Korea's Ministry of qualifications. One, the semi-commerce and Industry, which official Koryo Trading Company, is responsible for seeing that was given special treatment bethe country meets its export tare cause it handles small orders gets, came up with the idea of for small and medium-sized creating GTCs in 1975, after business enterprises and there-

can acquire a larger volume of export intelligence at a lower cost than non-GTCs are able to do). They can select their uwn " main " banks (unlike ordinary South Korean companies which bave their main banks designated for them by the Bank of Korea.

Their overseas branch, or 12 GTCs. subsidiaries may raise foreign to the strict guidelines which apply to offshore borrowing by the rest of South Korean indus-try. And they pay lower fees

portedly even France, have exports. The requirement for thetic Fibre, scraped through does not provide the full medium-sized concerns which

ment the GTCs receive various members of large, diversified, be said to confer "group status" members of any or all of the out therefore with the advantage panies to which the company

> leading heavy industry enter sage shosha may, or may not; prise and one of the biggest play a central role in the group textile concerns. A similar set to which it is related. of relationships is enjoyed by Samsung Company, Hyundai Corporation and the rest of the

On average, South Korean bers for about a0 per cent of picking up the rest of their busitry. And they pay lower fees nes from smaller, unattached than ordinary companies for the clients. tTCs are encouraged

The GTC is, therefore, in a All the GTCs (with the very real sense the "core" of In return for fulfilling the exception of Korea Trading Cortile group to which it belongs qualifications set by the govern-poration) also happen to be and the designation of GTC can ment the GTCs received. privileges. They can become industrial groupings. They start on the whole family of comexport associations organised of having a "tied" clientele for concerned is related. The central within major South Korean, their overseas marketing activity role accorded to the GTC fits in industries (which means they ties. Dacwoo, the number one GTC exports which pervades South in 1978, belones to the same Korea's entire economy. . It profamily of companies as a top vides a contrast, however, with electronics manufacturer. a the situation in Japan where 2

The Ministry of Commerce and Industry, which administers the CTC system, says that the companies concerned enjoy one other important benefit. They currency loans without reference GTCs depend on group mem- are attracting the brightest graduates from top universities. their export turnover while, in contrast with the situation of a few years ago when the toughest compelizion was for jobs in the government.

The drawback of the GTC system, as seen by the companies which have qualified, is I that government guidelines are too ambitious and make it too hard to register profits (although all 13 GTCs did, in fact, report profits for the year

In the view of ordinary South Korean trading concerns which have not managed, or tried, to win GTC status the system is open to more radical objections. They argue that the creation of GTCs has served merely to concentrate the business of selling Korean exports into fewer hands—not to in-crease the overall amount of business faster than it would have increased anyway. Concentration of owoership and control could be dangerous, according

and Industry admits that critics of over-conceotration could

THE GENERAL TRADING COMPANIES Number of aver-Exports in \$m' Company name and date of designation seas branches Samsung Company, May, 1975

Daiwoo Industrial Company, May, 1975 Ssangyong Industrial Company, May, 1973 ....... 264. International Chemical Corporation, Nov., 1975 ... Hanil Synthetic Fibre Industl. Company, Dec. '75 Korea Trading Company, April, 1976

Hyosung Moolsan, August, 1976

Bando Trading Company, Nov., 1976

Sunkyong, Nov., 1976

Sam Wha Company, Dec., 1976 31.3 167.1 Kumho Company, Dec., 1976 ..... 

Note: Yulsan Industrial Company did not apply for GTC designation in 1979.

### COOUR INTERESTS

GROUP	NTERESTS
Sainsung Company:	Textiles, garments, department store, sugar re- fining, hotels, electronics machinery, shipbuild- ing, rolling stock, defence, construction (22 companies)
Daewoo Industrial Company:	Heavy industry, caustruction, electronics, ship- ping, finance, insurance, leather, textiles (23 companies)
Ssangyang International Chemical Corparation:	Cement. clectronics, chemicals, university (11 companies) Faotwear, textiles, paper, electronics, construction, shipping, transpart, securities (22 companies, approximately 200 subsidiaries)
Hanil Synthetic Fibre:	Synthetic fibres, woal spinning and weaving, petro- chemicals (6 companies)
Karya Trading Company:	100 per cent owned by Korea Traders Association. specialises in small arders
Hyesung Moolsan:	Tyres, leather products, tannery, nylon (8 companies)
Banda Trading Company:	Member of Lucky Graup, electronics, chemicals, mluing construction, petroleum refining, securities (32 campanies)
Snnkyang:	Textiles, electronics, machinery, rubber, tonrism (12 companies)
Samwha Company:	Footwear, raw silk, silk fabric (25 companies)
Kumha Company:	Tyres, electronics, bus transpart, bicycles (12 companies)
Hyundai Corporatian:	Construction, autamobiles, shipbuilding, heavy in- dustry (17 companies)

which bas belped the country as a whole.

Ynisan Industrial Company:

The Ministry has one other specific concern-to see the GTCs increase their role in the handling of imports. The 13 GTCs bandled only 4 per cent of the nation's total imports in have a point, but says the 1978 (compared with 32 per GTCs have created an "atmo- ceot of its exports) and seem

case of cotton) or from industry itself (in the case of many other industrial raw materials).

GTCs may well play a leading role in the new phase of overseas . resource development which will bave to accompany the further growth of South C.S. sphere of export promotion to have faced difficulties in Korean industry. Meanwhile,

taking over import business successful or otherwise, they are from state corporations (in the . at least free from the worry of foreign competition. South Korean trading company requires approval from the (orivate sector) Korean Traders' Association to upen a full operating branch in Seoul. So far not a single approval has been granted.

Shipping, aluminium, construction .

# Friction

Traders' Association before they would represent formidable commay open full branches in petitors for Korea's fiedgling Korea. The KTA has yet to issue general trading companies a single approval and appears. (GTCs) if given a free hand, unlikely to do so, with the result. Korea probably has much less that foreign trading companies reason to fear that western tradthat foreign trading companies reason to fear that western trad-are effectively banned from ing conceros might take over carrying out import or export the handling of its imports and transactions in their own right exports. ings for it zin. on Korean territory. (They may act as "offer agents" for Korean importers but may not buy or Restraint sell goods in their own names. drum in hearts in

in war plant 2 : not, permitted the opening of on Japanese business activity, foreign trading company although less drastically so Korea seems to be aware that self have gr branches is understood to be than in the cases of trading its policy of import inheralisation that it believes the major company branch approvals. The tion, introduced last year, could competition. Japanese trading companies Bank of Korea has allowed four work in favour of Japan and

South Korea's banking regu-The reason why the KTA bas lations also serve as a restraint (Mitsur and Mitsubishi, etc.) Japanese banks to open full against the interests of

branches in Seoul, which means competitive exporters from the that Japanese banks have been given numerically equal treat-ment with British and French banks, despite the overwhelmingly larger stake of Japan in the Korean economy. The Japanese authorities have restricted Korean banks to the western European countries.

West. To minimise the advantage given to Japan the Government appears to have made a point of selecting items in which European industry is strong (eg biscuits) for inclusion in the initial rounds of liberalisation. Ultimately Korea may have to opening of the same number of branches in Tokyo (which means that the Korean banking global competitive edge (for the economy, and exports, are example cars). The hope is, growing fast and everyone is however, that when that time becoming rapidly better off, comes Korean industry will itpresence in Japan i much example cars). The hope is, smaller than that of major however, that when that time Korea seems to be aware that self have grown strong enough its policy of import liberalisa to hold its own against Japanese



is OK!



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# Competition and conformity

one hand five nationwide specialised banks, leading to a the top of this structure are the 1972. commercial hanks-all partly high degree of uniformity in five commercial banks-the Government owned - vie with eight Government-owned Korea is involved in the opera Choheung Bank, Hanil Bank, specialised banks, ten private thous of the commercial hanks Korea First Bank and the Bank regional banks and about two up to the level of appointing of Seoul and Trust-which are dozen foreign banks for senior officials and even to all effectively state-run. chronically scarce funds.

the On the other hand, Finance Ministry and its off- the institutions.

SOUTH KOREA'S banking is a shoot the Bank of Korea, exer- The structure of South from which it transferred most but it may also set different ened their ordinary banking curious mixture of competition cise comprehensive control over Korean banking gives a decept of its equity stake to the ratios for different types of business in competition with the issuing detailed instructions on the day-to-day functioning of

The Government is the largest shareholder in all except Commercial Bank of Korea,

and guided monopoly. On the both the commercial and tive impression of diversity. At Korean Traders Association in deposits.

All these banks have their their behaviour. The Bank of Commercial Bank of Korea, the head offices in Seoul and operate a network of nationwide branches. With similar historical backgrounds and with strong intervention by the government in their development, the five city banks have been brought to a close uniformity in their organisation. Each is about the same size in terms of capital, deposits

> number of branch offices. In addition, a strong uniformity prevails in the hanks' management. Interest rates are agreed by the Bankers Association, in conformity with maximums set by the Bank of Korea, while dividend payments are also subject to government approval — and are almost

> Even though the commercial hanks seemingly compete with each other, in practice the high level of regulation imposed by the Bank of Korea has severely limited this competition.

### Reserves

The city banks rely heavily on the rediscounting facilities of the Bank of Korea hecause of a chronic shortage of domestic savings in South Korea's banking system relative to the very heavy demand placed on the banks by industry for finance. The bank meets this demand for funds on highly-selective terms. giving priority to those areas (such as export industries) deemed to be nationally important rather than the most profit-

The other contributing factor to this fund shortage is the high level of statutory reserves required hy the Bank of Korea. the minimum ratios of reserves against their deposit liabilities, specialised banks have strength- must excreome.

It is perhaps not surprising that a private study of the composition of the lending partfolios of the city banks showed that not only were they almost identical in terms of industries had taken place in this breakdown in the past five years were almost the same for all five

Complementary to the city hanks in function, but comand loans ootstanding and the petitive for funds are the 10 regional banks. These privatelyowned institutions have been set up during the past 10 years to help finance the development needs of provincial areas.

> Previously it had been found that the regional deposits with the commercial banks (and with the specialised baoks) had been flowing away from the provinces to finance development projects in the major cities or government-promoted industrial areas. The regional banks have acted as a counter to this drain and accordingly their major customers are usually smaller local enterprises and utilities.

The much larger system of specialised hanks—eight in all —are auswerable directly to the Ministry of Finance. They were established progressively—start-ing with the Korea Development Bank in 1954-to provide the long-term or special-purpose funding necessary in the developing Korean economy.

Initially these specialised hanks were operating in areas which the commercial banks had been unable to satisfy, and operated with government funds as part of their resources.

However, in recent years, the amounts horrowed from the Government have declined Not only does the central hank relatively, while other sources have the power to set and alter such as hank debentures. deposits and foreign horrowings that the hanks must maintain have increased. As a result, the

commercial banks, and now capiure a sizeable volume of ordinary deposits.

At least two of the specialised banks — Korea Development Bank and Korea Exchange Bank -compete directly with the city supported, but that changes that banks in the more profitable areas of their business, notably foreign exchange lending.

The remaining, and newest, section of the hanking sector, are the branch offices of foreign banks operating in Seoul and to a limited extent in Pusan, the second largest city. At present there are 24 fully-operative foreign banks, while about 10 more have established representative offices, which is usually the preliminary step to seeking a full permit.

The foreign hanks operate mainly in the foreign exchange loan market, with very little of their assets or liabilities in domestic currency. No more than 10 per cent of total deposits are beld in Won, South Korea's unit of currency. The major source of funds is the overseas head offices of the hanks. This accounts for about 60 per cent of operating funds, with the remainder coming in foreign exchange deposits from South Korean sources.

The foreign banks total foreign exchange lending within South Korea in 1978 reached U.S. 849m. more than double the level of the previous year. In contrast, foreign exchange loans by domestic hanks was \$1.25m. However, the domestic deposit base of the local banks at the end of 1978 was. Won 7,490hn more than 80 times larger than that

of the foreign hanks. One of the main reasons for the concentration of foreign banks on foreign exchange lending-apart from its greater profitability-is the acute shortage of domestic currency they

Energy

base, their only access to Won funds is hy sale of securities in the market, or by availability of the swap facilities they have with the Bank of Korea for the conversion of foreign currency. As in many countries, the foreign banks have no access to rediscounting facilities with the

central bank. However, they are required to maintain a certain range of overbought positions in foreign currencies, and any funds above the upper limit must be sold to the central hank or Korea
Exchange Bank in return for
Won So they may increase
their Woo funds by huilding up foreign exchange boldings, but in the process eventually supply lendable exchange to the rival official

### Guidance

Even in their exchange lending the foreign banks are strictly controlled. They are subject to the foreign exchange requirement programme established yearly by the government to regulate the irse to which foreign funds are put. The programme channels foreign funds into areas which are deemed to have high priority in the development of the national economy.

Therefore all areas of retail banking in South Korea are subject to a very large degree of government direction or "administrative guldance." The degree to which this is entrenched is hest illustrated by the "primary backing system" which has been set up to super-vise corporate lending for the past two years,

The nominated purpose of the primary hanking system is to improve the financial operations of major companies hy exercising systematic control over all loans supplied to them. The target companies of the pro-

Won 5.0bn and those which were members of a business group which had total group borrow. ings of more than Won 10hn and which themselves had borrowed

more than Won 100m. Each year the Bank of Korea designates those companies which are subject to the primary banking system and a primary bank is nominated for each such company, plus a limited number of secondary banks. After tha only a primary bank or secondary bank of a compancan provide loans to that com pany. The target company i compelled to have one primar and perhaps six secondary bank

including foreign hanks.

The primary hank must establish a ceiling on the working capital loans to a company, with this ceiling subject to Bank is Korea approval. In addition, it company must auhmit a writti financial development pri foreign gramme to the primary ban foreign every two years, which the ntrolled, bank must then oversee. The bank has the ohligation to hell a company improve its ne. and approving any diversification moves or foreign borrow

No institution can provide loans of more than Won 500m to a target company without the approval of the primary bank And, in the event that a com-pany finds itself in financial difficulties, the primary hank will move in to devise a scheme

to salvage the operation. Because foreign banks as well the domestic banks must participate in this system, the overall effect is to give vest discretionary powers to the Bank of Korea through the primary banks. And it is through financial "guidance" such as this that South Korea has been able consistently to achieve the trade and industrial development targets its planners have set year by year.

Ron Richardson

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goods that her industry will pro-The second is to ensure stable supplies of natural resources.

The South Korean planning authorities are probably at least as worried about the second of these problems as they are about the first, although they reluctant to discuss It much in public. Within the resource sector energy constitutes the most serious area of concern, with attention forusing on the country's rapidly-growing dependence on crude

Oil imports provided 55 per

SOUTH KOREA'S hopes of cent of South Korea's total again by the early 1990s (reach- estimates, could contain shortly for station number seven sustaining a 10 per cent annual energy needs in 1975, but were ing 130m metric tonnes in terms deposits of about 2bn barrels, and eight. (These figures fail to energy needs in 1975, but were ing 130m metric tonnes in terms deposits of about 2bn barrels, and eight. (These figures fail to which is actually present add up because one nuclear annual energy needs in 1975, but were ing 130m metric tonnes in terms.) growth rate up to the early supplying 50 per cent of the of anthracite equivalent by 1990s depend on the solution of that last year. A one-year-old two external problems. One is long-term projection of the South Korean energy picture tion could become easier if the

prepared by the Korea Develop- country discovers oil resources ment Institute (the latest on its lown territory. The material on the subject that is officially available) suggests that dependence on imported oil will reach 84 per cent in 1981 before, it is hoped, tailing off in the late 1980s.

For this to happen, however, the country will have to be successful in the various energy diversification and conservation programmes on which the government is embarking. Even success is achieved in these

The search for oil

chances - of this happening depend chiefly on what happens in the continental shelf area lying hetween South Korea and Japan where drilling for oil should start in the not too distant future following ratifica-Dles of an agreement providing joint exploration and exploitation of the area.

The so-called Block Seven fields, oil imports in 1984 will Japan agreement is known to he double what they were in contain oil-bearing strata and, 1975 and will roughly double according to some private

known until the drilling pro- ment's original programme gramme begins. This could be before the end of 1979, depending on bow quickly Japan and Korea agree on the choice of a single operating company to conduct exploration.

If the oil search in Block Seveo yields disappointing results (or, alternatively, if It is indefinitely delayed by polifical or other problems) South Korea. will be faced over the next few years with a rapid decline in the extent to which she can rely on domestic energy resources. Production of anthracite coal (25 per cent of the country's total energy resources in 1977) is expected to fall gradually over the next decade, as is consumption of firewood and charcoal for domestic heating (9 per cent of total energy consumption in 1977).

Hydro-electric power genera-tion may rise substantially over the next few years since less than half of South Korea's hydro-electric potential has been developed so far. However, the total contribution of hydropower to Snuth Korea energy needs is barely 1 per cent, so that even the doubling of capacity would make little difference to the overall situa-

The rather gloomy prospects for domestic energy resource development point, in the view of the Korean Development Institute, to an increase in the nation's reliance on imported energy resources from about 55 per cent of total energy con-sumption in 1977 to about 90 per cent by 199t (assuming that the Gross National Product and the amount of energy consumed hoth grow at ahout 10 per cent per year through the 1980s).

The problem which faces South Korea therefore becomes one of developing imported cnergy resources other than oil. to avoid a situation in which the nation could be held to ransom hy oil producers. A second priority is to diversify sources from which the country imports crude oil; or, failing this, to enter into political or economic of a kind which might help to guarantee supplies.

heavy emphasis on nuclear power generation. The single pany (NIOC) also happens to nuclear power plant which is operating at present (the Kori 1 group in the construction; of plant) has a generating capacity. South Korea's fourth major oil of 595,000 kW, representing refinery, which had been due to about nine per cent. of total electric power generating capa- 1979.

In the area, however, will not be plant project in the governcancelled after numbers had

been allotted to later plants.) On the strength of this programme the Development Institute estimates that nuclear power may be supplying 10 per cent of South Korea's energy needs by 1986 and perhaps more than 15 per cent by 1991. This scemingly ambitious figure reflects the government's con-fidence that the development of nuclear energy will not be held hy the environmentalis npposition that has caused prob lems in the West (and in Japan where the difficulty of getting local government authorities approve power station project has forced the government scale down its targets several times).

## Nuclear

Heavy reliance on nuclea power will make it necessary for South Korea to sign long-term contracts for the supply of uranium instead of relying on "spot" purchases of enriched uranium as it has done up to now. The Ministery of Energy says it is "working on" this matter but the first long-term; contracts have yet to be an

Next to nuclear power, South Korea expects to rely on coa-imports as the main alternative to oil. The Government is starting to think seriously about way; and means of ensuring stable and long-term supplies from producers such as Australia and the U.S. hut has not yet managed to sign long term contracts with any major supplier There is a wistful awareness

that China would be a natura source of imported coal political conditions permitted. With or without China, South Korea hopes that coal imports will he meeting 17 per cent of its energy needs by 1986 and as much as 22 per cent by 1991.

Diversification of oil supplies became a highly-sensitive topic

in Seoul in the aftermath of the Iran crisis and is still a matter on which officials at the Ministry relationships with oll producers of Energy woold much rathe say nothing at all. Iran was the source of roughly 10 per cent In seeking to promote im of South Korea's oil imports be ported energy sources other fore its oil industry ground to than oil South Korea is placing a halt at the end of 1978.

The National Iranian Oil Coube partner with the Ssangroup begin production at the end of

city but only about 1 per cent of The question about the overall national consumption of Sangyong-NIOC project which is bothering the Government is Four more stations are under not whether money will be forthconstruction, however, and con- coming to complete the project tracts are expected to he placed (almost all the necessary funds

CONTINUED ON NEXT PAGE

# ABN Bank opens in Seoul.

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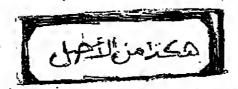
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# Exports given every encouragement

North East Asia as one of the cent in the early 1980s and 12 cent).

four "New Japans" whose per cent in the later 1980s, but Ano export growth poses a threat tu even at this rate Korea would the survival of some branches still be increasing its overscus of American industry. Most trade at roughly double the people in Scoul would probably expected world overage. In the gerous, if flattering, exaggeta- exports grew at an average tion. The value of Korean annual rate of 40 per cent. exports in 1976, at \$12.7bp was One reason why South roughly one eighth of the Korea's exports have grown so Japanese export figure, while fast is that they started from Korea's surplus with the U.S. at a very low base. In 1963, the \$663m, was less than one-tenth year that the present regime of Japan's. This does not alter came to power, overseas sales the fact that exports are over- were worth a mere \$87m. Even whelmingly important to Korea today Korea's exports on a per -probably more so then to any other developing nation with an

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economy of comparable size. About 35 per cent of GNP is and only about one-eighth of accounted for by exports, and typical European levels. Start-the percentage has been rising ing from a low base, however. since the late 1960s. Inevitably, therefore. Korea's economic explanation for Korea's sub-strategy has been one of export- sequent export achievement. led growth (in contrast to the In a closely regulated economic growth strategy fol economic system the Govern-lowed hy Japan in the first two ment has done everything decades after World War Two possible to make exports fly whose the make exports fly make 
more slowly over the next kets; encouraging industry to ductors (France). decade or so than they have sell its products at lower prices done up to now. Exports, if overseas than those charged at with protectionism is four intensive heavy industry prothey fulfile the Government's bome; and ensuring a supply pronged. In the short term it ducts will puse a serious chal-

Search

Domestic energy supplies:

Imported energy supplies:

Wood and Charcoal

Hydroelectric

Total

Nuclear

\*Estimated:

Total

view this designation as a dan- period from 1965 to 1977 Korean

capita basis are less than half those of Taiwan (a little over \$200 compared with over \$500) does not provide the

CONTINUED FROM PREVIOUS PAGE

itself in the awkward position veloping the refinery industry already on the stocks, however,

of having to look to another on the basis of joint ventures and seems likely to go ahead

SOUTH KOREA'S ENERGY NEEDS

(units in thousand metric tons of anthracite equivalent)

1975 % 1981\* %

20,258 4,548

25.793

63,738

1,770 =73,472

Another Government device to promote exports has been the creation of General Trading Companies on the Japanese model. These are set specific sales targets and in return enjoy certain financial and administrative privileges-besides the prestige of the much coveted "GTC" lahel.

The main threat to the further has direct responsibility for seeing that export targets are met, claims to he very worried indeed. The U.S., which is Rorea's largest market (taling nearly 50 per cent of the total. 31 per cent of exports in 1977). maintains restrictions on Korcan textiles, footwear and colour TV

of producing countries. Another

1991

2.127

20.670

130.11: 7,885

57.084

90.6

40.623 235,710

260.2:6

3.034

88,790

27,705

16,416

161,436 100

132,911

74.0

55.0

17.2

10.1 82.3

SOUTH KOREA was classified target, will show a 22 per cent by a feam of investigators from increase this year over the 1978 the U.S. House of Representatives Ways and Means Committee which recently visited mittee which recently visited growth rate will slow to 14 per North East Asia at any of the continuous and 12 per cent of cheap export credit (curations of the continuous distributions) of cheap export credit (curations of restricted export will involve a massive import of items so as to earn more money within a given export volume. (Korea's trading partners claim shift of emphasis from short-cent) with the standard rate for commercial loans of around 22 per cent of cheap export credit (curations). alsu sliuws considerable skill in exploiting loopholes within export restraint agreements, hut this, naturally enough, is not part of the officially admitted strategy for dealing with the

> A second way in which Korea hopes to prevent protectionism from damaging its exports is by shifting the pattern of its trade rapid growth of Korean exports industrial goods. Textiles, from light industrial to heavy is the rise of protectionism in clothing and footwear, which western markets—a problem accounted for nearly 50 per cent about which the Ministry of Commerce and Industry, which are expected to be downgraded by the late 1980s to ahout a 20 per cent share, while the general category of machinery exports should increase from 15 to

Korea is already beginning to promote exports of simple insets, while Japan restricts silk dustrial plant such as cement products, leather footwear and and sugar refining equipment many different varieties of fish. (these may be worth as much European countries maint in a as 5thn this year, according to patchwork of restraints on the the Ministry of Commerce and import of Korean products, industry, compared with the where the growth of industry as one U.S. banker puts it. This import of Korean products, industry. compared with the supplying a large home market).

Exports are scheduled to grow for individual overseas mar
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Exports are scheduled to grow for individual overseas mar
Exports are scheduled to grow for individual overseas marlow technology light industrial Korca's strategy for dealing exports to capital and skill-

have already been disbursed) producing country or to the in- between local husiness croups whatever the fate of the N10C-but whether NIOC will be able ternational majors to cover the and State-owned oil companies Ssangyong venture.

to fulfil an undertaking to supply the refinery with oil. If cause the Government to think the Hyundal group and twice about the wisdom of de Pertamina of Indonesia is Korea's heavy dependence on crude oil imports as an energy source has caused problems for the Government's price stabilisation campaign, besides constituting a worry in the longer-term future. The direct impact of recent increases in crude oil prices on the wholesale price index this year is estimated at 1.04 per cent while indirect

These price effects bave driven home the need to find some means of insulating the conomy from fluctuations in world oll supplies, but there is no indication that Korea has an answer to a problem which has baffled almost all the industrial

term export financing of the kind now provided at preferential rates hy the Korean banking system to medium and longterm export financing.

The third " leg " of the Korcan Government's strategy for fighting protectionism involves a search for new markets. This is nut a new priority as can be seen from the fact that export dependence on the U.S. has follon from over 50 per cent in 1968 to just over 30 per cent today. (Similarly Japan now takes only 2t per cent of Korca's exports, compared with 38 per cent as recently as six years ago). Korea has been successful in stepping up exports to the Middle East (mainly in the form of materials for the spectacular series of contracts won by the Korean construction industry) and is now looking bopefully at Latin

America. The Government has begun to show strong interest in the development of trade relations with China, which is regarded as Korean products such as steel and cement and fertilisers, and as a natural supplier of fuels and raw materials, notably coal and oil. China, however, has shown no sign of wanting to do business with Korea. The possibility of proud hetween the two countries with Korean products being shipped via llong Kong or Singapore is being considered in some quarters, but even this appears to be a non-slarter for the time being. Japaoese trading con-cerns, which might well aet as intermediaries in such business, take the view that China will not embark on trading relations of any kind with Korea until it bas succeeded in its current campaign to establish trade links with Taiwan.

The Government's last weapon against western protectionism is the paradoxical one of liberalising Korean imports. effects are put at another 0.52 Korean industry was heavily protected against imports up to some two rears ago (and is still extremely well protected in a number of sensitive areas such as motor manufacture). A programme of liberallsation, however, got under way officially in Exports ...... 1978, with the result that the Government now claims that 68 per cent of Korean trade has been liberalised on an Item



The fish market at Pusan. Fish products are among a long list of Korean exports that are finding difficulty in overcoming restrictions in overscas markets.

basis. Another round of import highly sensitive, is that too fast one time expected because of liberalisation is due in 1979 and a removal of barriers could interpretate the flow of Japanese demand, while exports of cement 1980s, bringing the degree of liberalisation (again on the official basis of the number of items freed) to over 90 per cent by the mid-1980s.

The Koreans are proud of the fact that they have acted "spontaneously" in starting to free their exports (unlike Japan. which had to be pushed into import liberalisation by external pressure). They hope that free-ing imports will not only combat internal inflation and increase the competitive strength of Korean industry (the main economic argument in its favour) but also put Korea in a strong "moral'

straints on Korean exports. programme, to which the industry. Car exports have Government appears to be grown less rapidly than was at

Imports .....

crease the flow of Japanese goods to Korea, at the expense of less competitive exporters had to be suspended altogether such as the EEC. The current during much of 1978 in order system, under which quotas are supplied. allocated to individual countries, enables the Japanese export drive to be kept within hounds. Import liberalisation served to increase Korca's visible trade deficit substantially last year, but this was in line with the Government's overall policy of

with capital imports. Korean exports face one other threat to their continued growth apart from the refusal of foreign markets Korean goods. This is the rapid position vis- and continuing rise of Korea's a-vis trading partners who are own manufacturing costs and thinking of planning further rether apparently insatiable demand from the local market A snag about the liberalisation for the products of Korean

SOUTH KOREA'S FOREIGN TRADE, SM.

Target

running a moderate current

account deficit and balancing it

the buge backlog of domestic demand, while exports of cement and of certain food products during much of 1978 in order to keep the home market

The Ministry of Commerce and Industry cites supply shortages as one reason why Korean exports started 1979 at rates reach the target for the year, while imports were running at levels much higher than called for hy the target. The Ministry also claims to be concerned about an overall cost differential of around 20 per cent between Korea and Taiwan in the manufacture of light industrial goods. Such facts provide a corrective to the alarmist view that Korean exports are poised to "take over" western markets. They do not mean that the Korean export drive is about to run out of

1977 10,046

# Source: Korea Developmeu! Institute THE LUCKY GROUP

# Sorry. We didn't have enough room for "Made in Korea, Japan, USA, Germany, Canada, UK, Switzerland, etc., etc."

e had to settle for just "Made in Korea." WOf course; even though somewhere along the line something from another country always gets involved, there are plenty of Korean things that go into our products.

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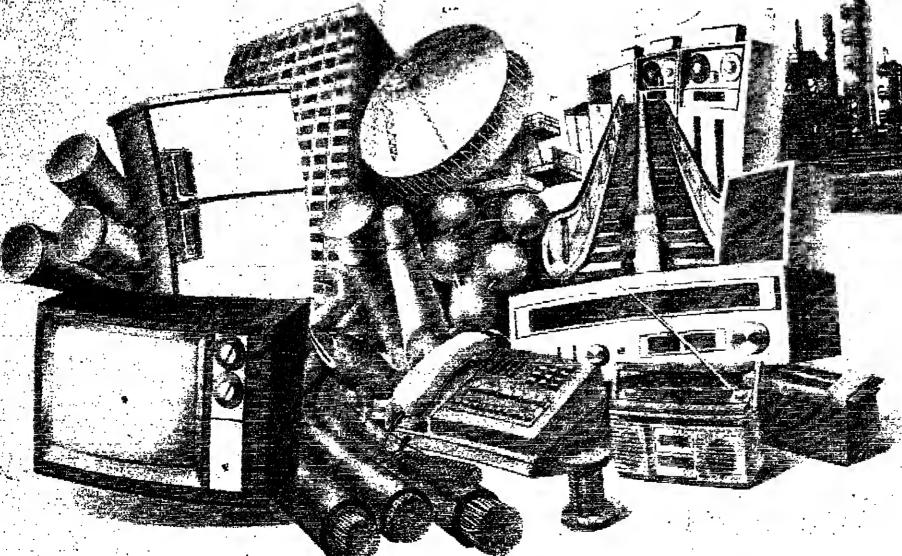
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# Agriculture

# Planning pays off

KOREAN FARMERS bave come a long way from traditional despondency in recent years, and are now faced with the new challenge of adapting themselves to a fast-industrialising

The country is now selffood, the income gap hetween main to the cultivation of high-cities. The rural population. been substantially narrowed, cluding the provision of elector of the paddy fields last year, and is forecast to decline furand rural living conditions, inhave heen greatly

But to keep up with the growing demands for meat, milk and vegetables, and to cope with a continuing drain on the farm tabour force as a result of the country's rapid industrialisation, the Government is actively promoting the transfer to a new

concept of farming.

Until the mid-1960s, South
Korea, a traditionally agrarian society, bad been suffering from chronic poverty on the farms. Every spring tha farmers weot through a period of hunger before their bartey crop was harvested. The rice paddies were so poorly irrigated that they were mostly at the mercy of the weather. More than a third of the rural families. which accounted for 56 per cent of the entire population, were forced to subsist on farms less than 0.5 hectares each in size. To belp feed its overcrowding support policy, which is responsible for purchasing substantial population, the country had to sible for purchasing substantial amount of rice and barley from farmers upon harvest every year under the U.S. aid pro-

The fundamental problem was nation's arable land-less than a quarter of the entire terri-

President Park Coung Hee for several years, if only for rice initiated a series of five-year alone. initiated a series of five-year economic plans in 1962, the agrarian sector was virtually ignored, while emphasis was placed on industrial development. But heginning with the third five-year plan which started in 1972, increasing attention was a reliable to a serious tree. The Government is now entired to a serious tree of the covernment is now entired. tion was paid to agriculture, making rural development one of the plan's chief goals. Top priority was given to increased production of foed grains, especially rice, which repreespecially rice, which repretural income—such as that from sented nearly a balf of total off-season work at factories—

rice, in 1977 an unprecedented The Government aim is 50 per

Attractive and sporty

that's the Pony

duction moving from an average yield of 494 tons per bectare the world's highest figure, top-ping even neighbouring Japan.

This success in boosting rice output is attributable in the agriculture and industry has yielding local strains—tongil, been substantially narrowed, yushin and miryang. The new varieties covered 70 per cent was down to 31 per cent in 1978.

> use of agricultural chemicals. Apart from rice, South Korea has achleved self-sufficiency in harley, another important food grain. But the overall domestic grain aupply was 25 per cent short of requirements hecause only negligible quantities of wheat and corn are cultivated wheat and corn are cultivated at home. Wheat is an uneconomical crop in Korea be-

cause of its long growing season, which prevents the double crop-

ping that is possible with rice.

### Factor

Another important factor behiod the increasa in rice output has been the Government's price sells them to the consumer.

Although the accumulating limited amount of the budgetary deficit accruing from the price support programme has recently led to a call for its abolishment, the Agriculture When the Government of Ministry intends to continue it

ing fast.
The Government is now en-

couraging farmers to increase their off-farm earnings, since there is a limit to rises in farm income. Although non-agriculood consumption by weight. rose to 28 per cent of the In 1975 the country succeeded farmers' total annual earnings in reaching self-sufficiency in last year, it was still inadequate.

15.2 per cent increase in rice cent by 1990. To this end, it is production was achieved, that pushing ahead with a proposal's total of 6m tons rice programme to disperse industrial plants to rural areas: results so far are not satisfactory.

Another major problem facing Korean agriculture is the growing shortage of labour due to the continued migration to the of the national total in 1965. and this year, is likely to be 76 ther to 20 per cent hy 1991.

As a result, the proportion of agriculture workers in the total

contributed to the increased rice production, as has better use of fertilisers and the widespread for the wi makes it worse is the fact that most of the city-bound migrants are young people.
The Government seas gradual

mechanisation of farming as the only solution to this problem. To promote mechanised farming, the National Assembly last year passed a special law pro-viding financial assistance in the

machines:

But given the small size of unit farms, less than a hectare per household, and the irregular shapes of paddy fielda (only 18 per cent of which have been rearranged into regular paiterns under a Government programme), mechanisation is still far off. At present, as the principal farm machine there are 210,000 locally produced small power tillers—one for every 10 households. The government plans to increase their number to 500,000 by 1986. Meanwhile, it will also increase rice transplantera and barvesters (which are rare now), to 120,000 and

60,000, respectively.

Another new direction for 

140m won. The Government is extending loans and tax benefits to encourage livestock and dairy farming. There are a number of constraints, including vast amounts of investment needed to develop pasture land on the hillsides which abound in Korea and the need to import most of the required feeds. Nevertheless, the Government has a longrange plan to increase the poputation of imported beef cattle from the present 47,000 tn 726,000 by 1991 and dairy cows from 194,000 to 858,000.

One unique feature of Korean rural progress is Saemaul Government's agricultural Undong, the new community undong, the new community undong, the new community movement, launched in 1970 at the initiative of President Park. An integrated rural development, last year for ment compaign with the contract of the the cont

form of low-interest loans to Australia. This year, meat instrumental in galvanising the farmers in buying farm imports are expected to increase farmers into improving their ductivity, then raising their incomes. Elected village committees select projects, which are implemented chiefly by voluntary labour with some Government assistance in the form of cash and building

materials. Saemaul Undong started with such simple projects as improvements to roofs and drains; moved on to infrastructure projects, including farm roads, small bridges, electricity and piped water; and then to income supplement projects sueb as joint livestock raising and sericulture. Its latest project is intervillage co-operation for regional development. The movement has now extended to urban neighbourhoods and factory workers to mobilise the entire nation in self-help pro-

Samuel Kim

# Foreign investment

# The rush slows down

labour supply, still continuea to flow in now chiefly because of the rapidly growing local con-sumer market. For the third consecutive year foreign investment arrived at an annual rate of around \$100m in 1978. This year's Government projection is

for another \$100m. Since the Government began encouraging foreigners to make equity investments in 1962, when a series of five-year cconomic plans began, a total of just over \$1hn has been approved in 891 cases; \$873m had actually arrived by the end

Government the decided to open the door to foreign investment as a means of financing its ambitious economic development plans and introducing technical know-how, the major attraction Korea could offer was a cheap labour market. There was an abundance of literate, hard-working, easily trainable and dextrous labour available at \$30 a month

starting wage.
After South Korea normalised relations with neighbouring Japan. its former colonial overlord, in 1965, there began a sudden rush of Japanese investors into the country. Most of the Japanese investments were for producing labour-intensive such as textiles for export to Japan and other

The Korean Government then enacted a special law governing the introduction of foreign commercial loans, equity investments and technological know-The law, still in force. now. The law, still in force, provides for a five-year tax holiday followed by three years 50 per cent tax reductions to foreign in status. It also guaranteed the unlimited remit-tance of dividends or profits and the repatriation of principal after two years of operation. It described as one of the most liberal foreign investment laws in the world.

### Benefits

The tax benefits, which apply to both corporate and personal incomes taxes, customs duty, property tax and acquisition tax. were attractive enough to induce investments by Amaricans. Their mancy went mainly into the labour-intensive electronics assambly plants and such chemical lines as fertilizer manufacturing and oil refining.

In the league table of countries leaves are a such as the league table of countries leaves are a such as the tries Japan came first with 59 per cent of all foreign investment approvals by the Korean Government in terms of cash, totalling \$584m in 665 operations. The U.S. followed with

\$194m in 116 projects which accounted for 19.2 per cent.
Among the Europeans, the Dutch have the largest investments in Korea-\$73m covering four cases. They include a joint renture petrochemical project by Dow Chemicals of tha Netherlands. West German investments total \$19m covering 18 cases. French \$11.3m (five cases) and Swiss \$12m (seven)

Investments by British companies amount to \$11.6m in five projects. They include \$5.6m by Hill Samuel for a 50 per cent equity stake in a merchant baok: \$4.1m by Lazard Brothers, also for 50 per cent interest in another merchant bank: \$1,050,000 by Lucas CAV for 70 per cent ownership of a plant manufacturing nuzzles for diesel engines: \$600,000 by Spirax Sarco of Cheltenham, Gloues., for 60 per cent share iu a steam controller manufacturing plant; \$108,000 hy Foseco Minsep of the Midlands in a factory producing chemicals for foun-

dry and steelmaking.

The last three are in juint ventures with Korean pariners to produce and market their products locally. "We came here in order to get into the Korean

FOREIGN DIRECT investment, market, which we found is large, which was once attracted into growing and buoyant," explained South Korea by the low-cost Christopher J. Ball, president of Spirat Sarco Korea.

His company plans to start producing in June at its plant in Bupyong, just outside Seoul.
It hopes to export to other Asian countries from next year.

A. C. Wyatt, project manager of Lucas CAV overseas opera-tions who is helping set up the CAV Korea plant in Changwon on the south coast, expressed a similar view. "As a multinational company, we had been looking for an opportunity of building a plant in Asia and saw in Korea the potential of future growth," he said.

Both Mr. Wyatt and Mr. Ball said that lahour supply is no problem in Korea, but except for mannal workers, labour is no longer so cheap.

A machine operator should be getting the equivalent of \$350 to \$400 1 month, compared with a corresponding equivalent of \$550.8600 in Britain, while the salary for middle management people, \$550 to \$800 a month including honus and other fringe benefits, is about the same as in Britain.

Government officials maintain that the average wage level for semi-skilled workers in Korea is still a little lower than in Hong Kong and Singapore and ahout equal to or slightly above Taiwan rates. Thus Korea seems to be fast losing its once Thus Korea large edge over other Asian countries as the cheap labour market for foreign investors: this is the result of successive 20-30 per cent wage increases

in recent years. This is reflected in the sharp decline of new investment in

labour intensive industries. Indeed the Government no longer approves foreign investment in textile industry because Korea's existing mills have truuble keeping up their exports because of quota restrictions by

major importing countries.

According to Mr. Kang ShinJoe, director general of the
Bureau of Foreign Investment
Promotion, the Government
welcomes the following projects: · Large-scale complex projects, such as metals, machinery and electronic equipment, which require high level of tech-

nology;
• Export-oriented projects
which will contribute to exploring overseas markets; projects which contribute to

the development and effective use of domestic resources; ■ Import substitution projects.

Mr. Kang sald the latest trend ls investment in food processing, and in heavy industries such as

chemicals. venture to produce snacks and instant nundles, Nestle of Switzerland in a joint project to produce baby foods and high protein foods, and the Lotte confectionery group of Japan in a milk and meat processing

venture. Brown Boveri of Switzerland is known to be negotiating with Seoul's Daewoo group for a joint venture to manufacture power plant facilities, and Babcock of West Germany for a project to produce power plant boilers. Volkswagen of West Germany is reported to be seeking a Korean partner for production of small cars. Imperial Chemical Industries and Dunlop of Britain are also

said to be looking into invest-

Although there is no legal limit to the share of foreign investors in an enterprise, the Government allows, in principle, up to 50 per cent equity. In the following cases, bowever, majority or 100 per cent foreign ownership may be authorised:
Projects entirely export-

oriented and at the same timecontributing to raising the technological level of the

particular industry;

Projects with imported technology that is highly sophisticated and needed by the economy;
• Projects by multinational cor-

porations that are permitted 100 per cent ownership in other countries hecause of their exclusive production techniques, business operations including market control on a global basis,

nr patent rights;
Investments that are heyond the capabilities of local firms, remicals. This year CPC International the capabilities of capital requirements, the U.S. invested in a joint because of capital requirements, technological sophistics ments, technological sophistics. tion or market opportunities: • Investments from the countries with little previous participatinn in Korean economy.

The minimum amount of foreign equity investment authorised is \$200,000, but for investment electronics and machinery in dustries is reduced to \$100,000. In the industrial engineering field \$50,000 is the minimum is quirement

South Korea does not permit any portfulio investment in the stock market by non-resident foreigners. Even for residents nn profits can legally be re patriated out of the country.

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On the last four pages of this Survey IAN HARGREAVES, who has recently visited South Korea's major industries, outlines the country's industrial strategy and looks in greater depth at individual sectors.

# A second industrial revolution

SOUTH KOREA is now in the assembly market (wages costs in the last eight years, is only developing areas). In spite of Impressive progress has all overcome if this and other industable to count on a thick pile process in bringing about its rose by over 30 per cent in both now moving from the planning the Koreans' urgent desire to ready been made in areas such trial tarrets are to be met. In of applications for every

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and striblished of consumer electronics and metal

goods siich as cutiery, clothes per cent to 35 and televisions before its Some of the implications of economic theorists and industrial planners started to argue apparent for example, the to reduce its dependence upon and shipbullding industries; industries; indeed, anything and serious indeed, anything and serious indeed, anything and serious indeed, anything and serious indeed, anything and so far the development of the everything in heavy industrial industries; indeed, anything and the machinery sector is very uneven. But it is already clear number of technology-licensing agreements and, less frequently, seven companies, which by 1981 to reduce its dependence upon and shipbullding industries; joint ventures with advanced the light labour-intensive indus-

There are three main reasons described. for this decision: the awareness : What Korean planners call 255 in Korea there were 42 Hyundai International Daewoo, that Korean labour is rapidly the "machinery industry," the electrical agreements and 38 Samsung, Daehan, Kangwon, pricing itself out of the cheap subject of four promotion plans petrochemical—the other key and Hyosung.

facturing output by 1991, com- boilers, nuclear power station panies feel the Japanese have fabrication industries.

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second industrial revolution 1977 and 1978; the growing pro- to the operational stage. The strengthen their links with as railway rolling stock, where the short term a major difficulty vacancy, and in an area like goods; and the feeling that competition from other developing on the 51 plants already competition from other developing on the 51 plants already competition from other developing on the 51 plants already competition switch partly to reduce their trade deficit with Japan but the state of th agriculture, to a semi-industri- countries will be less keen in glete, but where another 150 switch partly to reduce their reach \$100m by 1991. Hyundai salised condition. That meant more technology-intensive areas. factories remain to be built trade deficit with Japan but trade deficit with Japan but is reported to he close to a significant export deal with Greece, light industries; negative textiles, and chemical industries to started to turn out machine Europe on the protectionist and at home, the industry is account for 65 per cent of manu- tools, construction equipment, front and because some com-

tries upon which its success was strategy are far less well machinery industry entered account for 60 per cent of the There are three main reasons. inducement out of a intal of Hyundai Heavy Industries, 255 in Korea tthere were 42 Hyundai International Daewoo, Industries,

now almost self-sufficient, with the help of foreign technology.

Output of heavy electrical machinery (generators, transformers, motors, etc.) reached \$222ni last year, still signifying a small industry, but twice as large as the year before. More Important from the Korean point of view, exports and imports were roughly in bulance; in electrical sector Korean indutry is in a position to meet domestic needs.

### **Imports**

In some other areas, this is far from the case. For machine tools, the country relied un imports for over 65 per cent of its needs last year, and outside the simple lathe sector the dependence on foreign goods was even higher. In chemical and construction machinery. Steel: domestic needs have grown so fast that the level of self-sufficiency has actually slipped back Petrochemicals: from 37 per cent and 9,5 per cent in 1974 to 17.8 per cent and Electronics: 7.3 per cent last year. On the other hand. Korea already has a healthy surples in the agricul- Textiles: tural machinery trade.

The Government's goal is to achieve an overall level of selfsufficiency of 70 per cent by 1981 lo preparation for a major export assault in the fifth fiveyear plan starting in 1982. It is interesting in this context 10 MACHINERY INDUSTRY: IMPORTS AND EXPORTS IN 1978 note the general policy of Korean industrialists. where their export base is tiny, in spreading their products into as niany markets as possible in order to gain maximum experience and to prepare distribution and marketing arrangements. Hyundal Motor is not untypical in exporting to more than 40

There are huge problems to

within 20 years. tectionist restrictions in adheart of the development is the The first revolution-involved vanced countries against high dragging war-ravaged country, volume and low added value lacking raw materials and with goods; and the feeling that complex near Buson, deals were with Japan and substantial domestic orders and low added value where the dust is still settling on the 51 plants already cominterest rules (18-20 per cent), fight to retain staff. Contrary but everyone is complaining to the Japanese model, labour about shortage of funds at the moment and some companies are talking of cutting back development projects by as much as 30 per cent this year if the reins are not eased. The shortage of working capital has also aggravated an always tight position in relation to component stockholding, which is an important reason for many indusshurlage of key raw malerials in the early part of this year. the planners know they must

More underlying problems are, reverse quickly to underpin the the shortage of skilled labour, industrial strategy. in spite of a recent decision to year. Employers are no longer economy, there is much to sug-

Shipbuliding:

Ceramics:

Coment:

Non-ferrous metals:

Sector

General machinery

Electrical machinery

Transport equipment

Precision machinery

Motor industry:

turnover in Korea is high-3-4 per cent a month, according to the Economic Planning Board. Even so, the typical male industrial wage is still only between \$250-\$350 a month, including hnnuses. A function of the shortage of skilled technicians and scientists is the still inadequate level of spending on research and development-less than a quarter of that in European countries and something

Coupled with general worries increase post-high school col- about the price of oil and the lege places by 40 per cent last sluggishness of the world

Intended

world ranking

155 972

KOREAN INDUSTRY: MAIN GOALS FOR 1986

(TOTAL EXPORTS \$50bn)

Target

components

\$500m exports

Production

961 2,281

1,459 221

Figures include shipbuilding and electronic products.

Source: Korea Society for the Advancement of the Machine

Industry

\$10bn exports

20.6m tonnes capacity Annual capacity of 6.5m dwt

Annual capacity of 1.5m tonnes

of ethylene \$9bn exports and 85 per cent

Annal capacity of 40m tonnes

Self-sufficiency in copper, lead zine and aluminium ingot

1,230 871

374

Annual capaity of 2m units

localisation of product

\$10bn exports, 10 per cent world market share

Korea's industrial transformation will he barder to achieve than the first.

In pursuing its objectives, the Government's weapons are an armoury of import protectionism the form of high tariffs against unwanted items (although the theorists of the planning Board are adamant that Korea is moving to an open and liberal trading pattern, more like that of Sweden than that of Japan), cheap loans for companies investing in preferred sectors, tax incentives and to encourage the

But probably mure significant measures is the fastering of the nation's economic and industrial ennsciousness through, among Sacmaul (new community) movement. This campaign. campaign. modelled on an earlier successful drive to get farm lahourers to work harder and more cooperatively, has, according to company directors, produced dramatic improvements in lahour productivity, in return for which companies have invested heavily in welfare and recreational facilities for their

inflow of foreign technology.

staff. Saemaul is an important part of a set of national attitudes, stemming from the common economically superior to North Korea, which has so far kept. South Korea free of labmir troubles. Although a classically capitallst ecopomy, great effort is ex-pended by the Government in preventing ostentatious display of wealth (it is common for plant managing directors to wear the same uniforms as their

to reduce income differentials. "We are working for the next generation," is probably the most common philosophy one hears expressed in South Korea and it explains the willingness of most to accept the slx or seven day week of 10-12 hour days. It remains to be seeo whether the sheer effort and determination which has got Koreao industry through first stage of advance will be sufficient to power it through

operatives) and in attempting

# Textiles

# Still a major force

in the present generation's excess of 30 per cent a year, move into heavier and more Korea is soon going to he outperformed in labour-intensive technology-intensive sectors

This is misleading In 1978, industries such as textiles. textilea exports accounted for 31 per cent of the country's Republican China, whose textile total sales of goods abroad At \$3.98bn, the industry's export sales remained Korea's biggest foreign exchange earner and the as an industry leader initially key provider of capital for in natural fibre products and diversification into heavy, then in synthetics capital intensive industry. It also employed 20 per cent of poorer performance is the very the workforce

As the table shows the Government expects the industry to continue growing, doubling the value of its exports in real terms between 1978 and 1991. The industry's own assessment, as disclosed by the Korean rederation of Textiles Associa- The industry says it could tions, is to expart goods valued comfortably expand at double at \$6.5bit fat current prices) in this rate in these markets if 1981 and \$100m in 1986. Federation of Textiles Associa-

1981 and \$100n-in-1986:--In that year, If the Governin the world industry rankings into industries where restrictions do not exist.

Samuel of world textile exports Same - That said, the Korean textile

SOUTH KOREA'S industrial in the important long-range spite of rising wage on is. That years old, which is twice the leaders have a hahit of referring study of South Korea's economy strategy involves switching to accepted level of durability. In to their textiles industry as if to 1991 published last year by higher quality and higher added 1976, 31 per cent of spindles it were in a state of decline—the Korea Development Instivation 2004s in restricted and 35 per cent of looms in the the glory of a former light in tute, is the feeling that with markets and pushing more cotton industry were over this dustrial age soon to be forgotten wage cost inflation running in volume into uncrotected 10-year limit and the situation is

> In particular, it is felt, industry cests are thought in Korea to be at least 65 per cent lower than its own, will emerge

poorer performance is the very great anxiety. Self-in Korea, especially in the textiles and electronics industries, at the growth, of protectionism in Western markets. The EEC Is limiting Korean textile imports to a 6 per cent annual growth rate and the U.S. to 6.5 per cent.

In that year, it the Govern—But the South Koreans are ndustric the ment's merit, five year, plan But the South Koreans are ndustric than a winfolds as intended. Korea will realists. They do not believe to be exporting \$500m worth of the restrictions will be eased, goods. So the textiles share will although they argue keenly once of MF abed down to 20 per cent of that (more in electronics and motor of the content of the case than textiles) that they association, the volume of should not be punished for the abetile exports will still have sins of Japan. Their response lifted Korea from sixth place; to the restrictions is to move in the world industry applies into industries where restrictions.

> manufacturers . have. carefully-The reason for the sense of hid plans for continued growth decline, which is strongly felt in spite of protectionism and in

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interests in Korea.

Korean companies operating in other areas.

nuclear energy, oil, gas and petrochemicals.

goods sent to unrestruted mar- five-year kets. Japan accounted for gramme. \$1,040m. That, the South Koreans believe, indicates that plenty of room remains in other developing-country markets: The Middle East is of growing importance.

This year, garment manufacture will account for 62 per cent of exports, in 1986 for only 50 per cent, with febrics taking 37 per cent and yarns 13 per bent. Fabrics then, and principally synthetic fahrics, represent the real growth sector.

The preference for a future emphasis more on chemical than natural fibres is also based on the relative economics of Korean iodustry compared with other developing countries. All of Korea's wonl and cotton are imported, whereas Korea's growing chemical industry (described elsewhere in this survey) means that textiles companies will not be in the position for much longer where the chemical fibre manufacturers rely on foreign sampliers for 70 per cent of their AM monomer, 60 per cent of front caprolactam and all of their

Korea's

the worsted/cotton companies, be sold in its bome market. 30,600 spindles (almost I per compared with 33.4 per cent this cent of the total) are over 20 year.

thought to have improved little tries took 49 per cent of Korea's part of the Samsung group, says textile exports (\$985m to the EEC) is seven-eight years and the of the \$2.011m worth of company is now engaged to a modernisation pro-

> Cheil, biggest of the 27 wool textile companies in Korea, with ahout a 45 per cent market share, provides an interesting counter trend to the general strategy of the iodustry's move away from garment production. Cheil is still expanding fabric production, but is also starting to make garments with the aim of this sector accounting for 40 per cent of its \$400m projected sales in 1983,

Mr. S. B. Lee, the company's president, admits that the requirement for an extra 35,000 workers, mainly women, in the ext five years is rathe daunting in the current Korean labour market. The company's reasoning is that, died to restricted U.S. and European markets for 60 per cent of its wooilen and worsted business garment manufacture, with the right attention to fashlon, offers high added value opportunities.

One market which does look

good for the South Korean manufacturers is their own. Rapidly rising real incomes mean that per capita consump industrial 'tion of textiles in Korea, which janners feel certain that the bas risen 13 per cent in the last lays when the country's two years, is expected to double bas risen 13 per cent in the last industrial economy could work again in the next eight-to 16.7 merely by rapidly processing kilogrammes per head in 1986. for re-export the raw materials This is equivalent to the level others are rapidly vanishing. of UK textiles consumption in The synthetics sector of the 1973. The result is that by 1986, forean textiles industry 43.5 per cent of the South is also its most modern. In Korean industry's output should

roduct 1976	1977	1978	1981	1986	. 1991
Chemical fibre	·-{				
Annual production			***	7.000	
(000 tonnes) 354	395	483	736	1,033	1,352
Capacity (tonnes		1 200	2,100	2,950	3,860
per day) 1,010	1,130	1,000	. 2,100	4,900	2,000
Self-sufficiency ratio of fibre	:				
output in	:				
synthetic textile					
industry (%) 82	. 82	. 85	90	95	. 98
ylon F		٠.			
Production					
(tonnes) 71,800	82,600	95,500	147,000	206,000	269,000
Capacity (tonnes		* ***		m ata	3.860
per day) 1.010	- 1,130	1,880	2,100	2,850	3,860
olvester F and SF					
Production	150 000	205 200	314 000	440 000	375.000
	199,000	200,000	914,000	#20+000	313,000
Capacity (tonnes	450	590	900	1,260	1,640
per day) 389 crylic SF	700	Vav	404	. Aimeo	7,020
Production					
(tonnes) 102,000	107.300	105.800	182,000	253,000	333,000
Capacity (tonnes	2019000	200,000	***		
per day) 290	310	360	520	. 730	950
per une					
urce: Ministry of	Commen	ce and	TEGUSTA	-atest	estimates.

	1976	1977	1978	1981	1986	1991			
		(000 tonnes)							
Natural fibre	140	140	222	247	306	366			
Man-made fibre	258	- 302	367	469	61I	794			
All fibres	398	442	589	712	911	1,160			
	1975	1977	1978	1981	1986	1991			
			(Shn 19	75 prices	)				
Total value of	٠.					•			
exports	2.74	2.9	3.56	4.85	6.I ·	.7.3			
Fibre and yarn	0.28	0.33	0.38	0.52	0.77	1.4			
Fabrie	0.66	0.68	0.99	L5I	2,28	2,92			
Finished									
garments	1.8	1.89	2.19	2.77	3.05	1.46			
Share of produc	et caleg	OTV.		: 1978-		1991			
in total expor		•		11%		20%			
	•			28%		40%			
			-	61%		20%			

Source: Ministry of Commerce and Industry-latest estimates.

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# Public ownership debate

Covernment is still rare in South Korea: a country characterised about national

But there was an exception io the closing months of last year, when the country's three largest conglomerates, Daewoo, Samsung and Hyundai. all made it clear with varying degrees of vociferousness that they would like permission to undertake the construction and operation of Korea's second integrated steel mill.

In the end, the Government ignored their hids and said that the number two mill, like number one, would be owned end operated by the Pohang Iron and Steel Company (POSCO), a company formed in 1968 with a 50 per cent Goverument stake and 50 per cent from

PUBLIC DISAGREEMENT steel industry trend for public hetween businessmen and the owoership of what is a highly industry, capital . lotensive hesides reiterating its confidence hy a remarkably high degree of in the ability and experience of POSCO, which even the rival economic and social objectives, conglomerates agree produces steel of acceptable quality.

There were many reasons for the private sector wanting a major stake in the future of Korea's steel industry. One is the industry's profitability, with POSCO returning a net surplus of \$40m last year against \$32m in 1977; a second is the ettractiveness to these conglomerates, which are all beavy steel consumers, in having guaranteed supplies at cootrollable cost and quality.
But a more general and under-

lying feeling among the big industrial groups is that the Korean Government is being too cautious about steel and ensuring by its caution that the

the Government bas responded to this criticism by firmly comtually certain to he built at Asao Bay on the West coast of start operation by 1984, and it foreign credit associated with purchases of equipment from overseas. There is no indication yet whether POSCO will rely

on the same Japanese and Austrian technology upon which it based its initial integrated mill, but in view of the fact that subsequent stages of the first mill have involved large contracts with other countries, the field would appear to be open for the new project.

In the private sector, the re-

get of 12m tonnes a year capacity year took over Union Steel. for the facility, which is vir whose 0.7m tonnes of crude steel output last year made it the largest private sector steelthe peninsula. The 3m-tonnes a maker. In the same year, year first stage, which is esti- Hyundai bought the small mated to cost \$2bn, is due to Inchoo Iron and Steel company. and Kumbo, another general will he financed by a mixture of trading conglomerate, took over POSCO'S retained earnings and Kukdong Steel. Hyndai plans to increase the output at Inchon from 380,000 tonnes to 1m tonnes, and Union Steel has plans for a new 500,000 tonneper-year development.

### Experience

These groups probably retain the bope that if they can acquire substantial experience of steelmaking they may he in the running when the Government comes to authorise a third coastal integrated steel complex, perhaps towards the end of the ext decade, Meanwhile, Hyundai, at least (as described in the article on construction), is also showing ioterest in taking both financial and operational stake in the steel industries of other developing countries.

This increase in private sector steelmaking, which mainly uses electric are technology and turns out reinforcing bar, pipes and galvanised products, does have the effect of introducing greater flexibility into South Rorea's steel strategy in that the private companies may well be able, if their plants are profitable, to extend production facilities beyond existing targets. The fact that by 1991 Korean experts are predicting a more than 6m tonnes a year shortfall between domestic production and demand will clearly encourage this trend,

ahout heing swamped by Korean steel exports, in spite of the recent dramatic statement by President Park Chung Hee that hy 1986 Sonth Korea would be the world's tenth largest steel

to earn hard currency to finance its dehts and future develop-ment and partly hecause the

In its plan for the second mill, has not deterred the hig com- domestic demand (especially for year when POSCO brings on steel exports. In 1978, exports example, was \$300 a tonne), the Government bas responded panies from moving forward, steel plate, coils for re-rolling stream an 80,000 tonnes a year to the EEC are provisionally although recent improvements to this criticism by firmly com- ICC, which is one of Korea's 12 and for special allow steels) silicon steel manufacturing estimated at less than 100,000 in the world steel market have. mitting itself to an enlarged tar- general trading companies, last while having disposehle sur- plant pluses of other products. Last Last year, there was a big year, Korea exported and imshortfall in stainless steel pro-

ported 1.3m tonnes of steel

products. The conotry's exports Steel Company (part of the thus accounted for less than Sammisa group) turning out 2 per cent of world steel trading. 150,000 tonnes of stainless steel In the past the planners have hars, plates and pipes against shown a tendency to under-domestic demand of 540,000 estimate Korean steel demand, innnes. A new stainless steel which is now expected to reach plant with 100,000 tonnes per 10m tounes this year, three years year capacity is to be cooahead of schedule, and to coo-structed, starting this year, by time growing at around 24 per Daehan Jungki, and Korea cent a year. The more rapid than expected growth of the completed its expansion programme for another 950,000 construction industry has been partly responsible, and this year tonnes per Korea expects to import 160,000 According to tonnes per year capacity. According to the Ministry of tonnes of reinforcing har to Commerce and Industry, this satisfy a 30 per cent locrease in will give Korea a total capacity demand for the product. Total of 1.55m tonnes a year in special domestic demand for reinforcing (mainly stainless) steels by bar is put at 1.8m tonnes this 1985, by which time domestic demand is predicted at 2m

Some steel products, such as tonnes. The Government says that girders, steel rails and sheet piling, are not currently promore: rapid expansion is duced in Korea at all and so impossible hecause of shortages are 4,500 subcontracted workers equal to domestic demand. In will continue to be imported of skilled labour and difficult who are not taken into account the case of refined lead, imports the foreseeable future tics in raising the vast capital There is also a severe shortage sums tequired some special steels, although South Korea's brushes with

tonnes, agalost a permitted voluntary quota level of 220,000 tonnes. The Koreans feel that it is not worth upsetting Europe duction, with the Korea Special over steel at a time when they are urgently trying to foster trade and technology links with the continent as part of the switch from economic dependence upon Japan. Steel imports from the EEC, meanwhile, have heen allowed to grow to 175,000 tonnes in 1978 as part of the

same stralegy.

however, its prices are highly competitive—10 per cent below those of Japan. This reflects lower wage costs and a high level of productivity, which POSCO now puts at 437 tonnes per man year compared with are expected to continue for Japan's 445. European productivity is generally lower, of electrolytic copper and zinc although precise comparisons (the latter is one of Korea's few different systems of counting there is adequate supply of employees. At POSCO, there domestic ore) is now just about who are not taken into account the case of refined lead, imports in the productivity calculation, will continue in spite of domes-Domestic steel prices are con-trolled directly by the Govern-

When POSCO does export,

national prices closer together POSCO, as would be expected; pitches its export prices below the prevailing international rate and has exported to 31 comtries, which represents a policy of spreading a small quantity of exports thinly in order to gain experience of a large number of export markets.

## Dependence

In the field of non-ferrous metals, South Korea's present goal is one of self-sufficiency. reflecting, as with steel, a heavy dependence upon imported raw materiala. Substantial imports of aluminium and lead ingots are impossible because of hasic metal products for which tic ore resources because domestic . demand one important gap for the steel protectionism, with the ment and for much of last year inadequate to justify investelectrical industries will be EEC, the U.S. and Australia, were running above interment in a large-scale refining
filled from September of this have also cooled the ardour for unational levels (steel plate, for project. to justify invest-

# Demand takes off

So the world steel industry MR. CHUNG SE YUNG, presides not have to worry too dent of the Hyundai Motor KOREAN MOTOR INDUSTRY PRODUCTION AND EXPORTS 1967-1978 (UNITS) does not have to worry too dent of the Hyundai Motor much in the next ten years Company, received a very loud cheer earlier this year when he told a mass assembly of his 10,000 production workers: "It will not be long hefore you guys

There will, of course, he some exports during this period, capita of \$752 and taxation partly because of POSCO's need to earn hard currency to fear Two years ago that proposiwhat little domestic demand existed, Korea's motor industry had little prospect of a home corporation's uneven product base. In 1976 the country bad range means it is unable to meet one motor vehicle for every 164 people-compared with a 1:4 ratio in Japan.

too own automobiles."

That was the climate in which Mr. Ching had to persuade his hoard to invest in the motor industry, and in which the three local motor manufacturers were seeking with difficulty to convince the Government that Korea's proposed car plants could be profitable and successful exporters.

Teday the picture is transformed. As per capital GNP passed the critical \$1000 mark last year (it is projected at \$1,493 this year) domestic demand took off. There is now a six-month waiting list in Korea for delivery of the country's only home-bred car, the Hyundai Pony.

This is despite continued heavy taxation on cars, which bas come to seem more necessary as the streets of Seoul have progressively hecome choked with traffic. Half the Poly's \$5,000 retail price in Korea is tax and from April onwards the annual car tax for a Ford Granada (assembled from kits by Hyundai since the end of last year) will be \$3,760 and \$507 for the Pony.

### **Bonds**

Those who want to register a car in Seoul also have to buy bonds to help finance the construction of future stages of the capital's underground railway and they can shortly expect to face a Singapore-style zoning system which will impose heavy fees for anyone using a car in the peak hour with less than a full load of passengers. To complete the picture, petrol now costs well over £1 a gallon. The effect of Hyundai's export objectives is ohvious. From a position of scouring every export market in the world, from Tihet to Belgium, Hyundai is now trying to hold down the level of exports. "I hope we can keep it to 25,000 units this year, hut we may be forced closer to 27,000," says Mr. Chung. A few months ago the 1979 target was being put at 30,000, against 20,000 in 1978. The revised export target is to be spread among 40 countries, so the Pony is going to remain a rare animal in all its overseas

markets. One small by-product of this situation is that exports to Britain are unlikely to start within the next two years, even though a right haod drive ver-sioo of the Pony will he ready later this year. The initial European teat market operation Kia in Belgium and Holland, begun at the end of 1978, is said to have gone well, but there will simply not be enough cars to continue the thrust.

The Korean motor industry's priorities then are to scale up production to 1m units in 1981 and to 2m units in 1986. The Government wants half the 1981 output and 70 per cent of the 1986 output to he exported. Of

Cars Trucks vehicles motor total total exports total exports exports preduction exports 4,983 1,385 6,604 1967 1975 18,509 3,808 14,973 31 37,290 36 48.292 1976 25,605 558 3.468 19,219 649 1,243 42,284 4,055 1977 5.075 5.453 35,263 83,000 9,136 6 85,693 1978 25,638 7.279 67 63,446 . 566 156,418 26,271 Ministry of Commerce and Industry Source

In the present situation this facturer. -Hyundai, whose share of output hetween now and 1981 is ex-pected to increase from 50 to 60 per cent. The Pony remains the only genuinely Korean car and it accounted for all but 7,000 of last year's motor vehicle exports.

Hyundai is in the process of extending its plant at Ulsan on the south coast of the Korean peninsula to raise capacity to 250,000 units a year hy 1981, Of these 200,000 would be Ponies. 20,000 Mark IV Cortinas and Graoada kits and 30,000 truck and has.

But the leap now being planned la for a new plant to be constructed inland (thus rejecting the British and U.S. aovice which persuaded Hyundai to go coastal with its Ulsan plant, which has sioce suffered from subsidence, baving been built on reclaimed rice paddy) and to be complete by 1984. It will be financed by an issue of shares of the Korean stock exchange, where Hyundai has kept investors happy with another 22 per cent dividend this year. resulting from post-tax profit of \$21m on gross sales of \$440 m for 1978

\$440m in 1978. Pony production will continue to be concentrated at Ulsan, but remains to be seen whether tha new designs which Hyundai and its Italian design consul-tant Mr. Giorgetto Giugiario now have on the drawing board will be ready in time to go into production in the new plant. These designs centre around a slightly larger hasic engine than the Pony's 1200 cc Colt equip-ment and seem most likely to result in a car designed to present a challenge in the Ford Cortina raoge. Later this year the Pony will also he available in a 1600 cc version.

One option which Mr. Chung has resisted, despite Govern-ment pressure, is to go into the small car market. It was even rumoured at one point that Government officials, following the administration's very active energy conservation policy, were preparing to liberalise (ie

the 2m units 70 per cent will be reduce import tariffs to non-see it, too, emerging as an ears 20 per cent trucks and 10 peoal levels) the import of cars independent car manufacture.

Mr. Chung dismisses such a possibility as nonsense. "It would simply flood the market with Japanese cars and that's the last thing the Government wants," he says. His own company's research has indicated, he says, that the Korean market, with its predominance of large families, is not right for a mini-car. The Pony is the smallest Hyundai intends to go and Mr. Chung says his view is

supported by experience in the Japanese market, where small-model designs have not been successful. Of course there is always the possibility that one of the other

manufacturers will choose to. rush in where Hyundai fears to tread. Probably the most interesting development in the corean motor industry in the last year was the entry of the Motors and thus entered a joint venture with General Mntors, Daewoo, founded as recently

as 1967, is one of the fastestgrowing of the Korean conglomerates and last year recorded sales of \$2bo. It has a reputa-tion as one of the hrightest and toughest groups in Korea and is expected both by Government and its competitora to take Saehan into new and more adventurous fields involving the development of its own model as a rival to the Pony. Up to now Saelian has only assembled

as a hicycle manufacturer end still has a strong line in Hondalicensed motor-cycles, concen-trates its passenger production on the successful Brisa, manufactured under licence from Toyo Kogyo of Japan, where the car sells as the Mazda Familia. Kia. having taken over the Asia Motors bus-manufacturing company, is also an important vehicles, but the 1980s should vehicle market

cent buses and special under 900 cc in order to apply If the Korean motor industry to pressure to the domestic manu- to meet its Government target of exporting 1.4m units in 1986 (more than 50 times the 1978 level) there will clearly have to be rapid expansion heyond that already publicly indicated by Hyundai

It will he interesting to see to where Korea will look for its motor industry technology in the future. Hyundai, in proparation for its new plant, has been talking to a number of major European manufacturers; including Renault and Volks wagen, but Mr. Chung says-these discussions have not been concluded. "It has still not been decided whether we need to have a partner at all," he'

It is certain though that the new plant will rely heavily on foreign machinery imports and that it will be much more highly automated than Ulsan, where local management has struggled Daewoo group, which took over to get the man-bours rate for the Korea Development Bank's Pony production down from 60 50 per cent stake in Saehan to 30 per unit which is still 12 man hours short of the Japanese rate for a comparable model:

It is also certain that the investment will be heavy at a time when Hyundai must be relying beavily on the profits made from its assembly of knocked down kits of Ford models to offset losses on exported Ponies. Under an agreement with Government. Hyundal can import one Granada kit for every five Ponies exported.

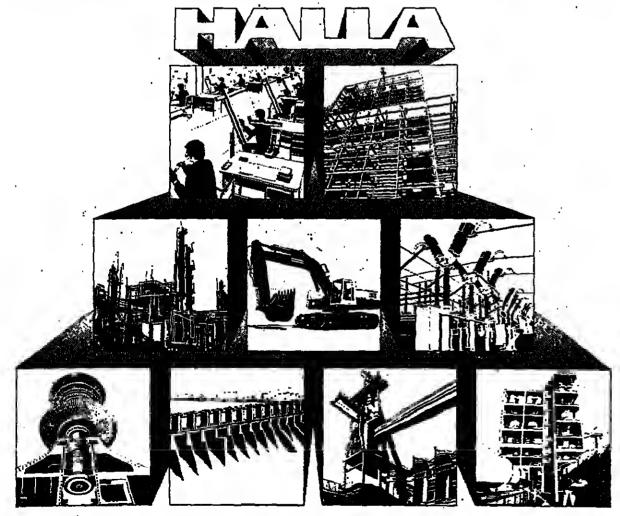
The Granada sells for an astonishing \$26,000 in Korea, Opel and Chevrolet models with although more than balf of this. Japanese and German engines is tax. The Pony is now 95 per. for the company's large range cent Korean-made, although this of buses and trucks. claim disguises the fact that Meanwhile Kia, which set out many components are assembled from overseas kits or manufactured with licensed technology.

Meanwhile domestic demand, fuelled by the rapidly increasing wages of, among others, the: Hyundai workers, will continoe. to hoom, perhaps taking domestic, demand to 2m units a year hy 1991. This would indeed bevolume hase from which the Koreans could make serious manufacturer of commercial inroads into the world morn!

### KOREA'S MAJOR MOTOR MANUFACTURERS Company Ownership Production capacity investment (units per year) Publicly quoted \$217m 140,000 Ford Cortina Mk IV company; member of Hyundal group Pony, Trucks, Buses Independent company, \$116m 70,400 has strong technical links with Honda Brisa Trucks Began as bievela manufacturer Rekord Owned 50-50 by General Gemint Motors and Daewoo group. Daewoo stake acquired last year from Rorea Development Total \$416m 278,400 units

### country will remain a net importer of steel for the forea mixture of banks. The Government was, of buff over the aecond steel mill course, only following a general seeable future. A joint venture between leading Korean industrial corporation and banks. Lazard Brothers & Co., Limited and Barclays Bank Advice on negotiation and structuring of joint ventures Arrangement of offshore finance Management and underwriting of stock and bond issues Investment trust management Foreign exchange business Corporate finencial advice Results at the end of our second full year of operations are: **INCOME STATEMENT BALANCE SHEET** For the years ended December 31 As at Recember 31, 1978 (In US\$ 000) ASSETS 3.212 2.231 1.225 761 517 2.55 6817 2.71 3.694 3.719 Income from lending Fees and commission Markerable securities Beneticial certificates Protet from securities trading Loans in Worl 1710 1.497 3.984 2.124 1.380 6-46 2.604 1.478 Administrative expenses ans in toreign corrency Other assets Provision for the Nei profit after (ax LIABILITIES & EQUITY 2,664 25,968 6,198 2,264 4,160 41,254 Overdialls with banks Short-rerm notes payable Won currency bonds Chairman & President: Jin Heung Kim Foreign currency borrowings Even. Vice President, Michael | Benries Exec. Vice President. Hak Su Yun Non-Executive Directors: Peter R. Codwin, Suns Hissan Hone Retained earnings Total shareholders' equity KOREA MERCHANT BANKING CORPORATION CPO Box 3869, Seoul, Korea Telephone: 22-5191/6 Telex: KOMBANK K28579

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# Electronics

# A challenge to Japan

NOWHERE IN South Korean industry is the sense of freading in Japanese foosteps more strongly felt than in the elec-

Korea's electronics companies hegan life in the late 1950s by providing cheap assembly bases for Japanese (and U.S.) kits. Since then they have moved into the middle ranges of sophisti-calion in consumer electronics, offering a big challenge to their menfors in the manufacture of televisions, radios and low-price audio equipment.

ndence

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\$4 71:00

The industry's export targets have also been constructed in line with the rule of thumb theory that Korean electronics is ren years behind Japan. In 1976, the Japanese exported \$9bo of electronic goods In 1986, the Koreans are pro-grammed to achieve the same

Many in the industry, how-ever, believe that it is too much to expect the electronics companies to be contributing 20 per cent of total Korean exports by 1986, in spite of their record of averaging 37 per cent a year growth between 1962 and 1977, Mr. Sung Chan Park. president of Gold Star, the Lucky Group company which leads the Korean electronics industry, believes the comparison with Japan does not apply this time because the Korean population is three times as small, creating difficulties in advancing to crucial economies of scale, especially in andio products and components.

"I should say that the most optimistic projection would be for the industry's exports to grow to 10 per cent of the country's total or \$50n by 1986, but you never know whether the Covernment might help us to do better. We shall certainly be aiming for their target." he.

the Government is the opening has delayed its tube manufac- in Europe too. I'm looking for of what they believe will be turing plans, but will still be offers, says Dr. Y. S. Chang, a television market. Some in the ndustry are hopeful that the Government will relax its posi-tion and permit colour TV broadcasting later this year, although current political wor-ries about stimulating consumer demand at a time of high inflation suggest this could be wishful thinking.

The Korean colour television industry, still only in its third year, has run into deep prob-lems because of the recent decision by the U.S. to impose a quota of 289,000 Korean seats in the 17 months from February. This was a reaction to a pattern of export growth characteristic of Korean elec-tronics: 1976: zero; 1977: 20,000 sets; 1978; 500,000 sets. The

three Korean manufacturers (Gold Star Samsung Electronics and Taihan Electric Wire) have an immediate capacity of 1.2m sets a year and could easily quadruple this level by transferring black and white set production lines to colour. Around 3m monochrome sets were produced in Korea last year. The Korean TV industry is already much bigger than Britain's and if they can find the markets, Gold Star and Samsung will not he far from the capacity of Matsushita the world market leader with 3.7m sets a year.

duction this year to well under duction fins year to well under half capacity, has also come just when the industry is breaking through to a high level of localised production by manufacturing its own colour tubes. This summer, Gold Star, for example, will start up a 600,000 colour tube, units per year facility at the vast Gumi electronics complex on the central tronics complex in the central One thing the electronics part of the country. Samsung,

later this year.
Dr. Wan Hee Kim, recently appointed President of the Electronic Industries Association of Korea and one of the 16-inch Korean colour set cerclosely involved in the original Government planning of to be the major role played by Japanese offshore manufacturers in the U.S. in blocking Korean products. The Japanese U.S. quota is 1.75m sets a year—"only because they not the —"only because they got there first," says Dr. Kim. The U.S. is by far the Koreans' most. important electronics market, taking 31 per cent of all out-put last year, compared with 40 per cent in home sales. per cent to Japan and 1.5 per cent to the UK.

But tbe Korean facturers, true to form, are already well advanced in their plans to beat the Japanese at their own game. Mr. Parl: says he has virtually sewn up an agreement to assemble Korean colour TV sets inside the U.S. and outside the quota restrictions. He says he is open to offers from Europe for similar ventures, although Gold Star is caught in the licensing problem of the Telefunken PAL colour system. The U.S. facility could start operating later this year at a test-run rate of 100,000 sets The quota blow to colour a year to investigate the sales, which has reduced prohas had to agree, with much reluctance, to use U.S. picture

Likewise Samsung has had detailed talks with European interests, most productively with Germany and France." We would be interested in co-operating on the basis of Korean manufacture and European design, marketing, know- years. bow, sales and management, but reacting to U.S. developments, if necessary we will assemble lieves that in the next five years,

floodgates in the domestic colour producing colour tubes in bulk key member of the Samsung managerial think tank and currently closely involved with electronics strategy. At \$167 ex-works, the export price of a house manufacture of key comtainly has price on its side.

> the electronics offensive, is cal to Korea's consumer elec-blitter about what be believes tronics industry, because it is tronics industry, because it is search and development. the only substantial area where the major companies have moved to both international scales of production and a high level of domestically produced components.

> > This is a useful reminder of the youth and relative primitiveness of Korean electronics. That \$1.4bn of exports last year, for example, comprised 43 per cent of assembly-only goods whose components were shipped in and finished products shipped out by the 35 foreign-owned com-panies and 85 foreign-Korean joint venture companies which still play a major role in the industry. These companies are greatly outnumbered by the 580 pure Korean registered electrenics companies, but many of these are small components manufacturers of subcontractor,

status. South Korea's balance of trade in electronics is, in fact, only just positive. In 1977, the country imported \$847m of electronic goods, against total exports of \$1.18bn Manufacturers using a certain level of imported parts are required to re-export at least 80 per cent of their output.

Men like Dr. Kim and Governent officials are confident that the reliance on foreign parts will rapidly decrease in the next five years as the big Korean companies scale up production of audio products in the same way as has bappened with television output in the past three

Mr. Chang of Samsung be-

left behind by the Japanese. That means improving quality control (mainly by increasing automation), developing in ponents-some of which bave Television production is criti- supply in Korea this year-and stepping np spending on re-

As for components, high on the Government's list of electronics priorities is the stimulation of the domestic manufacture of semi-conductors and integrated circuits, leading eventually to a capability In mini-computers. The Government has put up \$60m, alongside \$30m from the World Bank, partly to establish the Korea Institute of Electronics Technology at the Kumi industrial complex, where ten plants are either complete or under construction, five for the manufacture of semi-conductors and five for other computer components

hig industry for Korea because of the presence of Motorola, Signetics and Fairchild in one of the country's export-free zones, where the U.S. and European companies can assemble their products and re-export without customs pay-The output of theae companies accounted for virtually all the semi-conductor exports of last year (about 18 per cent of total electronics exports), and hy 1986 semi-conductors exports should be worth \$2.28bn if all goes to plan.

Semi-conductors are already

By that time, bowever, it is intended that a large slice of these exports will be indigenous products of the Kumi com-panies, all of whom have joint venture or licensing agreements with established (mainly U.S.) manufacturers. At present, only Samsung has a full operating semi-conductor company emsung Semiconductor, established in 1974. This chiefly produces circuits for Samsung's electronic watch business and

bipolar transistors.
By 1986. Dr. Kim believes that Korea will be exporting its first computer system. Other senior figures in the industry are less confident, but all believe the Korean companies will find a

LEADING ELECTRONICS COMPANIES Market Exports 1978 Employees sbare Main products Consumer products; affiliates in communica-tions, semiconductors Gold Star (Lucky Group) Consumer products Electronics affiliates in semiconductors, tubes components. -Integrated circuits Motorola Korea (U.S.-owned) semiconductors, 5,000 102 transistors Tai Han Electric Consumer products, 34 cable, communications 8.350 Integrated circuits Signetics Korea (Philips) Integrated circuits, Anam Industrial 4.500

COMPOSITION OF 19 EXPORT TARGET		KOREAN ELECTRONIC	CS OUT	PUT A	ND EX	PORTS
(by value)	%		1978	1979	1981 \$	1986 curren prices
miconductors and inte- grated circuits		Consumer electronics Total output	bп - 0.94	bn .	bn 1.52	bn 4.44
W televisiondios		of which exports Industrial electronics	0.64	0.7	1.09	3.16
pe-recorders		Total output	0.21 0.1	0.34 0.2	1.7 0.45	3.44 2.24
nplifiersanscelvers		of which exports Electronic components	1.12	1.31	1.98	5.48
lonr TV	2.7	Total output of which exports Total electronics exports	0.6 1.34	0.9 1.8	1.32 2.86	3.57 8.97

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# Construction

# Overseas contracts soar

LAST YHAR South Recent for technical advice and whose pulp and paper and electrical tionships with foreign advanced country with an embarrassator fields as turbine manufacture offers of foreign turnkey by their beavy industry divides as the pace of their then take the high added value bidders for its domestic consultance of their then take the high added value bidders for its domestic consultance of their pace of their then take the high added value bidders for its domestic consultance of their then take the high added value bidders for its domestic consultance of their then take the high added value bidders for its domestic consultance of their then take the high added value bidders for its domestic consultance of their beavy industry divided the paper and electrical tionships with foreign advanced installations) is to resist the technology companies formed offers of foreign turnkey by their beavy industry divided the paper and electrical tionships with foreign advanced installations) is to resist the technology companies formed offers of foreign turnkey by their beavy industry divided the paper and electrical tionships with foreign advanced installations) is to resist the technology companies formed offers of foreign turnkey by their beavy industry divided the paper and electrical tionships with foreign advanced installations).

contracts worth around \$400 in 1978 against \$3.50n the previous turned but to be well in excess of \$800, and to support this massive invisible earnings operation the Korean builders the countries where the projects shipped out another 50,000 or set are taking shape.

workers, taking the total to Even so Mr. Choi's personal workers, taking the total to al to the total total total total to the total tota almost 100,000

a remarkable performance. a remarkable performance, the overseas and domestic leass Ar a time when domestic. The domestic sector, which inflation was being pushed up

currency.

Although these limits have now been officially relaxed—partly in recognition of the liquidity difficulties they caused within some of Korea's higgest industrial enterprises—the spirit of the policy persists. The Koreans are being encouraged not to bring their remittances home, but to invest them in projects of the countries where he construction companies are active. This policy reflects in turn the Government's desire to see large sections of the country's exports, whether visible or invisible, tied to agreements with raw materials rich countries. Thus Hyundai Construction, still very much the higgest of the Korean building firms, is pegotiating a stake in Saudi Arabia's steel and aluminium plant when it is complete.

of view too. The Koreans are ventional civil engineering well aware that the best times skills, the assembly component have indeed passed for the for Korea's ambitious pro-Middle- East construction in gramme of plant exports. At dustry and that in future pure present, this is an area of only civil engineering operations limited export success for development will proceed at a of export contracts secured last more modest pace. This decline year actually fell \$161m from has obviously not been helped \$305m the year before: has obviously not been helped by instability in Iran, where Rorean contractors have about ment is, bowever, picking up 5 per cent of their business.

equally affect the more sophisti- country's investment in new cated end of the construction heavy plant forecast by the industry: the building of plant Korea Development Institute to for the metals, energy, and quadruple (to about £18bn) in themical industries. Here, the the period 1987-91, compared Koreans know that they are et a disadvantage compared with the beginning of such projects chemical, cement, fertiliser, in a position to use their rela-markets.

LAST YHAR South Recent for technical advice and whose

a big campaign by the Koreans

view is that last year's level of Given that the Koreans main contract the Middle East repeated in 1979, leading to the (accounting for around 70 per first decline in the pace of the cent of business), is generally industry's order taking since it considered to be in decline from emerged, as an international the formidable building boom of force five years ago. He predicts the overseas and domestic

wards by a variety of cost and the Rorean industry's total wage push factors, the up sales, is expected to slow down expected increase in the money as a result of a tighter Governsupply from foreign exchange ment public spending policy earnings caused the Government this year and also because of a to impose tight limits on compent the private housing sector. This foreign earnings into head will only partially be compensationally the private housing sector. sated for by the still white-hot pace of investment in facilities for Korea's planned switch of emphasis away from light industries towards the heavy

and chemical industries.

All these factors can be expected to work in favour of the bigger construction companies, 10 of which account for around half of the industry's turnover. The other 519 com-panies are mainly very small outlits, and the Government is putting further pressure on the rationalisation of the industry into larger units by its recent ban on licences for new construction enterprises.

## **Ambitions**

There is no doubt, also, that industries by offering to contri- these major construction combute both capital and then panies are destined to play a operating personnel for the much more central role in the growth of the Korean industrial This type of development economy in general by provid-makes sense from other points ing, in addition to their coninfrastructure Korean industry, and the value

The pace of domestic requirerapidly as a result of the indus-But this slowdown does not trialisation process, with the with 1977-81.

their competitors from Europe of plant (by which is meant and planning capabilities. and the U.S. who are called in chiefly oil refining, steel, petro-

utstrip all forecasts. Wr. C. W. Chot, chairman of foreigners to work and all forecasts the the Samwhan building com- Korean companies in order to lead Government was talking pany and also president of the echieve a spin-off of know-how. Construction Association of Meanwhile, abroad, the Korean Korea, says there must now be construction and beavy industry companies will increasingly be year. In fact, the figure has to identify themselves as offering their services on either turned out to be well in excess "development partners" rather a straight sub-contract basis or than competitors with both the in full-scale joint ventures with western or Japanese firms:

This means that the relationship between the big construccompanies and their domestic engineering and heavy industry affiliates is of increasing importance as the Koreans move towards a position in the 1980s when they nope them-selves to be bidding for foreign contracts on an independent turnkey basis.

For a company like Hyundai Construction, the links with the Hyundai group's beavy industry, engineering and steel fabrica-tion activities are already strong and well used. Many steel structures for the Middle East have been knocked inp at Hyundai Heavy Industries' shops close to the same group's Ulsan shipyard.

According to Mr. W. J. Chang the former military man, who is now President of Hyundai Construction, this inter-range relationship, which even includes a shipping company with his own combined with his own employees high productivity, is already allowing Hyundai to undercut other Korean contractors by a steady 15 per cent. He is predicting an increase in Hyundai Construction's rate of orders this year from \$2bn in 1978 to \$2.4bn and says the company bas already snapped up eight major contracts this year, with another 20 under negotiation.

But Hyundai Construction's leadership will not be retained automatically. Hyundai International split from the Hyundai gronp five years ago after a disagreement between Mr. I. Y. Chung, its chairman, and his elder brother, Mr. Y. Y. Chung. who started the Hyundai group and is still its chairman. Hyundai International does

not figure yet in the construc-

assembler of heavy industrial projects it is being styled to general capitalise on the industry construction-heavy strategy already described. Likeas Daewoo and Samsung, have industry activities, and a company like Samwhan, which started life in 1946 as a pure construction outfit, is today stressing the resources of its engineering affiliate. One construction firm, Kyungnam, bas bought a small U.S. consultant engineering business in order Korea's strategy in the field to sharpen up its technological The conglomerates are also

woo Heavy Industries bas over national lists more than 40, and such technology agreements are rapidly proliferating in fields as diverse as nuclear reactors, diesel engines and dredging equipment.

Whether the rest of the world construction industry should worry and refuse to co-operate with the Korean strategy, or whether it should see the availability of still relatively low-cost Korean partners with intensive if brief experience of some very big projects, is clearly going to he at matter of judgment in the edvanced countries.

According to Mr. Chaog. Korean labour costs (\$1100 per month for an overseas worker, against a national domestic industrial average of not much more than \$400) are still a good one-third below European costs, but another year of 15.6 per cent real wage inflation last year has already made the Korean worker uncompetitive with his rivals from the Philippines, Morocco

### Pressure

As Korean costs continue to rise sharply, clearly the competitive edge is harder to find, and the Koreans accept that after four very good years in the Middle East, they will increasingly have to sell on quality. So far, however, there is still no problem in luring Koreans to the inhospitable climate of the Arab world. Hyundai bas a 95 per cent re-application rate from workers who have completed their 13month contracts. One factor which is changing,

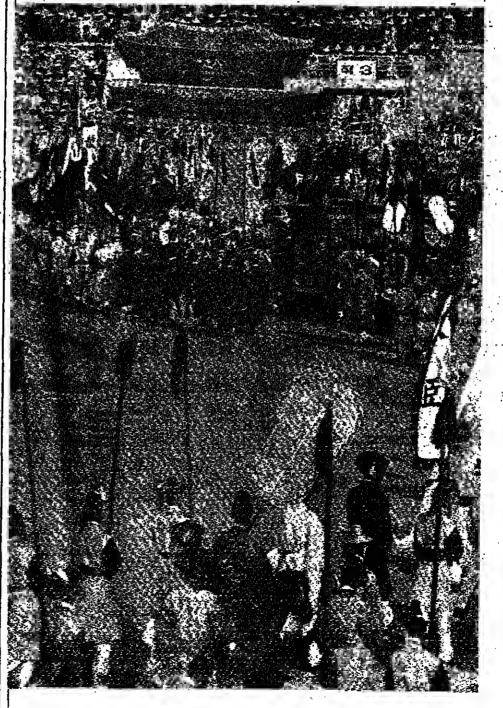
as a result of customer pressure, is the Koreans' willingness to purchase domestically available supplies and sergices. Their image of total self-sufficiency in the past has done harm to their standing with local traders. This self-sufficiency, bowever, really a misnomer as the big companies already bny half their materials from third tion industry's top ten, but as countries. Hyundai last year an integrated manufacturer and spent \$500m on such supplies balf of it in the U.K.

There is no doubt, also, that the Koreans will be looking increasingly to non-Middle East markets. At present, 10 per cent wise other major groups, such of the industry's overseas business is in the Far East, 45 per linked construction with beavy cent in Africa adn 7-8 per cent in South America. To some extent, the Koreans are limited in attacking these developing country markets because they cannot afford the luxury of aidlinked trading or even the soft loans of their advanced competitors. The companies do not doubt, however, that their horizons, as they become more technology-intensive, will also become wider in terms of

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# Shipping and shipbuilding

# Sprint strategy a miscalculation

SOUTH KOREA'S shipbuilding industry represents, arguably, the gravest miscalculation so far by the country's industrial planners. The strategy to sprint within 15 years to second place in the world industry behind Japan-although still not necessarily unattainable—has resulted in a string of serious financial

Two of the companies licensed to build important new plant, Koryo and Korea Shipbuilding and Engineering, found the strain of financing construction at a time of profound recession in their existing businesses too much and their part-complete facilities have now been passed over to the more secure finan-cial strongholds of two of Korea's biggest conglomerates, the Samsung and Daewoo groups respectively.

Meanwhile, Hyundai Heavy Industries, which set the Korean industry on the road to international status, bas had to cut its sbipbuilding workforce from 30,000 to 20,000 in the last two years as it has struggled, in spite of highly competitive pricing to fill its huge docks which are capable in theory of swallowing 1.6m dwt of orders per

In 1978 Hyundai bad to be satisfied with output of 29 vessels aggregating 693,000 dwt and its order book in mid-March comprised 33 vessels totalling

During this difficult period. Hyundai has been able to draw strength from the rest of the group and the 10,000 men no longer employed in shipbuilding have been comfortably absorbed into other beavy industrial activities, such as steel fabrication for land construction work, in Korean standards a venerated the vicinity of the Ulsan yard old-timer in the industry and In Korea, there is no shortage certainly well established in a of demand for experienced steelworkers and outfitters.

Mr. C. H. Cho, the Hyundai Corporation director responsible for ship sales, also says the yard has struggled resolutely to main- practically complete, requiring tain profit margins in its ten-only construction of the ders for new husiness where workers' accommodation — Hyundai has frequently under- standard at large industrial sites cut its competitiors by as much in South Korea. as one-third and still undercuts Japan by 10 per cent. But he stage project involving con-admits that in practice the mar- struction of two docks, one of gin frequently has vanished

No financial figures are pub- souriog lisbed for Hyundai Heavy Industries, which is a part of the Hyundai group not yet quoted on the Seoul stock exchange. Meanwhile, Hyundai continues

to try to improve its range of technical skills and versatility as a shipbuilder. About 20 engineers were sent for training overseas last year as part of the yard's build-up to offering its services as a huilder of liquid natural gas carriers in association with Gaz-Transport and Technigaz. So far, however, the yard has not won an order for

nierchant ship. On a more mundane level, the ship ard, like its neighbouring Hyundai Mipo ship repair yard, is also working hard at improving quality, especially on the outfitting side. Workforces at both yards have been criticised by Western equipment suppliers over the quality of on-site installations.

this most sophisticated type of

Mr. Moon Doh Chung, president of Mipo, believes his yard has now established firm quality control on basic repair jobs. "You have to remembor, we are still new, so that for certain complicated works we may require a little more improvement," be says. In spite of that, Mipo operated at 80 per cent capacity last year—a very reasonable performance in the circumstances of the market — and is confident of lifting last year's gross turnover of \$50m by 30 per cent in 1979.

### **Established**

Hyundai's sbipbuilding yard, six years old last month, is by way not true of the country's other large-scale shipbuilding facilities at Koje and Okpo islands.

The Koje yard is now

Kole yard began as a two-100,000 dwt (or Panamax-size) work of the Korvo company, but souring construction costs created cash-flow problems and in 1977 the Samsung group, Korea's oldest and perbaps strongest large industrial and trading group, took over the project as a substitute for its

own plan to build a mainland shipyard. Early last year, Samsuog signed an agreement with Burmeister and Wain of Den-mark and IHI of Japan for technical assistance in running the yard and in training workers. About 1.000 men are now on site and at work on

the company's first contracts. These orders are from Indooesia, with which Korea has close ties, for two 15,000 dwt oil products carriers and the yard bas also won an order recently for a 20,000 dwt products carrier from Pan

orean shipping. Mr. Eun Taik Lee, President of Samsung Shipbuilding, admits frankly that the \$20m contract figure for the Indonesian deal is a loss-making figure. "We will have big losses with these ships, but we have to do it because as newcomers to the industry we must gain experience." He adds that other deals now under nego-tiation with Australia and Northern Europe have pitched closer to profitability. Mr. Woo Dong Cho, chalrman

of the shipbuilding company and of the parent Samsung Heavy Industries, says the company has no regrets about entering shipbuilding, which he is confident is a strategic industry for the economic advance of both Korea and Samsung. However, the company has gone back to the drawing board on the second stage of the yard, originally due for completion in 1980.

It could still emerge as a 500,000 dwt VLCC dock (with shared between Daewoo (51 per the perhaps more useful possicent) and the Korea Developcarriers side by side), but it is would be normal for the bank's equally likely to turn out to share to be sold to private of \$850m and it intends to be the size of the existing dock. Investors once the project is boost this figure to \$1.2bn this "We have no firm commitments," Mr. Lee says.

Stablished. Daewoo says it year.

Stablished. Daewoo says it year.

Okpo will not contribute to expects its own lovestment to Okpo will not contribute to

THE MAJOR SHIPYARDS

**Prospects** Nominal capacity Ownersblo

16m dwt

Hyundai Heavy Unquoted company, part per year of Hyundai group. Sales handled by Hyundai

independent company

Daewoo con-

over Okpo

island yard construction

last year. Due

Industries

Korea Ship-

building and

Engineering

Daewoo Shipbuilding

Machinery

Samsung

Shipbuilding

Corporation 700,000 dwt established

per year

1.25m dwt

capacity

work Largest ship-Uncertain, but building dock glomerate took likely to in world with involve beavy

Orderbook ni

731,900 dwt

Orderbook of

six months

non-marine

content

for completion 1980. Samsong conglomerate Koje Island yard project from Koryo.

complete

Single 100,000 Orders for dwt dock, plus four products plan for second dock of undetermined

with a giant 1.25m dwt construction dock. The burden proved too great

for the limited means of KSEC, already suffering from the industry's slump, and the Government spent some time look-Both Samsung and Hyundai looked at Okpo and decided it was not viable only to find that their arch-rival, the younger and some say more amhitious Daewoo group, was prepared to take it on.

Formally, the ownership is bility of building two Paoamax ment Bank (49 per cent), but it venture in Korea shipbuilding has put up \$140m as pald-in because the least defined, is the capital for what is in effect on

associated with foreign equipment purchases.

Characteristically, Mr. Kim Woo Choong, 41, chairman and founder of the Daewoo group, has chosen a finance man to head the new venture. Mr. lng for an alternative operator. In Kie Hong, president of the Both Samsung and Hyundai recently titled Daewoo Shipbuilding and Heavy Machinery, spent 16 years with the Korean inance Ministry, and via the bridgehead of an economics refresher course at Harvard, joined Daewoo in 1977 to run its Orient Securities affiliate.

He took up his present job five months ago and is the same age as Mr. Kim. Last year, the Daewoo group had exports of \$850m and it intends to

Potentially the most exciting amount to \$400m and the bank exports in 1979. The takeover enture in Korea shipbuilding has put up \$140m as pald-in process has delayed construction work and the basic ship-Okpo island yard, designed by interest-free loan to cover yard facilities, designed by Korea Shipbuilding and Daewoo's basic construction A and P Appledore of the UK. Engineering to take that long-costs until 1981. Most of the now will not be complete until established company into the rest of the cash is coming in the end of 1980. Daewoo under the tide of rising costs capacity and a second able to Engineering to take that long costs until 1981. Most of the now will not be complete until once the contract has been hold ships up to 500,000 dwt, established company into the rest of the cash is coming in the end of 1980. Daewoo started.

The project then was the big league of world shipbuilders the form of guaranteed loans Development, the group's con-

struction company, has also taken over site operations at

By 1982, Mr. Hong says that Okpo, now a fishing village, will have a population of 100.000 and his company a workforce of 20,000 Koreans. He has already started to recruit and Daewoo will sbortly open its training school at Okpo to create 1,200 skilled men a year. "The men at Okpo will be the elite and they will have the most comfortable and hospitable environment possible," be says.

But the real question is: what will Okpo build, given that the 1.23m dwt tanker, which looked a-certainty when the yard was conceived pre-1973, is still no more than a figment of the wilder shipowners' imagina-

For a start, Mr. Hong says, the workforce will engage in the structural steelwork and crane construction necessary to equip Okpo itself. It will then be-come the company's answer to

This is hardly a modest statement as Changwon is the heart of South Korea's beavy industrial future—a site for 191 heavy machinery works still being carved out on a 12.5m square metres site 50 km inland from the major port of Busan. Mr. Hong says Daewoo will

build on its existing technical agreements with such companies as Brown Boveri of Switzerland, ITT and Babcock to produce a wide range of beavy industrial plant and equipment, using the huge concrete dock as a steel fabrication yard. As demand emerges it will also build ships, but it is important to note that so far the company has not signed any technical agreement with a ship-The uncertainty over Okpo's

eventual status in the pure ship-building industry and of Samsung. Shiphuilding's second phase injects a large measure of uncertainy into South Korea's future shiphullding capacity, still officially intended to increase to 4.25m grt per-year by

1981, compared with 2.7m grt pre-Okpo and Samsung. That 4.25m figure is what bas given the OECD shipbuilding working party such anxiety in the past two years because it represents about one third of the total volume of orders foreKOREAN SHIPBUILDING: OUTPUT AND

**PROJECTIONS** (gross registered tons in 000s)

1976 555 1,548 2,103 1584 Construction for domestic owners 618\* Ship exports 776\*

(% share of world market) Sources: Ministry of Commerce and Industry (1976-78 figures) Korea Development Institute (forecasts). Provisional

cast for 1980-81. In practice, for the reasons suggested above, real capacity in terms of available workforce is unlikely to reach 3m grt in that year, although the Koreans are ohviously ready to spring when the market turns. Companies such as Daewoo and Samsung have no desire to become major shipbuilders if it means losing a

Total ship ontput

lot of money. Meanwhile, the Government is doing what it can to belp. It has improved terms for export credit from 75 per cent to 85 per cent. Repayment periods are usually between five and 10 years and interest rates in linc with the international level for the industry at 7 to 8 per cent. There are also plans to subsidise the price of steel plate, the in-dustry's main raw material.

Under the terms of the fourth shipbuilding promotion plan for 1979-80, recently announced, \$254m is to he made available to finance this policy and the Government expects this to result in orders for 213,497 grt of vessels, of which 186,000 grt will be ocean-going types. Under the plan. Hyundai expects to get 11 vessels totalling 133.590, KSEC two at 34.584 and Samsung three small vessels totalling 6.050 grt. The rest will go to the country's six medium-sized yards (headed by Daedoog and Dooghae) and its 111 small

Another target is to increase the localisation ratio of ship construction materials from its present level of not much more than 50 per cent to 80 per cent in this process.

There is one other important factor working in favour of South Korea's shippards - the growth of the country's own

 HANYANG METAL IND.CO., LTD. . HANYANG LUMBER CO., LTD. • HANYANG SHIPPING CO., LTD.

As the table shows, this has expanded steadily and is expected to reach 6m grt by 1986 -roughly the size of the fleet now registered in Sweden South Korea bas a strong force of merchant seamen — 34,000 men—of whom only half now serve on Korean vessels.

Although South Korean ship ping companies, like those in many other countries, got into widespread financial difficulties last year, necessitating an \$80m Government injection to finance debt re-scheduling, the Govern-ment is confident that by rationalising the 71 ocean going shipping lines and by carefully financing expansion of the companies' container-shipping fleet the industry will have a secure base for the inture.

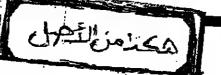
South Korean vessels already carry more than 45 per cent of the country's total seaborne trade, but the share for liner cargoes is only about 10 per cent, which resulted in a headon clasb between South Korea and the Far Bast Freight Conference last year when the conference refused to allow Choyung to Join Korea Shipping Corporation in its membership.

Eventually, the Koreans won and Government plans call for the ordering of another three container ships this year to take the national fleet to the size. necessary for a 40 per cent liner trades share by 1981.

At the end of 1978, Korea had 42 container-carrying vesséls (full or part-container) totalling 169,000 grt. The fleet is also hy 1981. The recent opening of 169,000 grt. The fleet is also Hyundai's marine engine plant comparatively old, with 20 ger will be a big contributing factor cent of the 497 vessels over 45 years old, which should also produce more business for the Korean sbipyards, where owners are financially induced to build at least one third of their requirements.

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# Why civil servants strike

THE STRIKE of 530,000 whitecollar civil servants called for
today underlines a major handicap facing the British Governcap facing the British Government in the run-up to the General Election: the State's direct employees are throwing the very machinery of Govern-ment into considerable disarray.

Some key Government computer centres have been closed down for five weeks; the Government has been forced to take the drastic steps of introducing emergency legislation in an attempt to re-open the Scottish courts and of suspending civil servants who have refused to do work normally done hy those a reluctance to strike.

In meetings at the end of last week Ministers thought they had all but reached a pay settlement with the majority of the civil servants unions by managing to isolate the two largest unions which have spearheaded the selective strikes which have thrown the machinery of Government into such disarray.

But the meetings came too late for today's strike to he called off, though by publicising the offer of 9 per cent now, with half the rest of the rises due from a comparability study to be paid next August and the remainder from March 31 next year. Ministers obviously hoped to spike the action.

### Long term

A speedy settlement is in doubt because of some aspects of the offer and the way it has been made. The long term cost of forcing a split in the unlons may also he severe in terms of the future of industrial relations in the Service.

There are no legal restrictions on the right of civil servants to strike, though career pressures and their traditional conservatism, particularly among older staff, have created a reluctance to strike.

Such widespread action by

enough for the Government

Further emharrassment arises servants are pressing for pay comparability, the principle that has been used to pacify groups such as the local authority and health service manual workers, the nurses and the amhulanceman. Most embarrassing of all for a Government committed to as yet unspecified comparability rises for those groups is that the increases doe on the hasis of the findings of the Civil Service's Pay Research Unit (PRU) comparability studies

### Private sector

Both unions and Ministers admit that some grades of civil servant can expect little or nothing extra as a result of comparaability studies, meaning a comparison of their pay with that of people doing similar johs

in private industry.
But the unions do estimate that rises of 20-25 per cent will become due for 3.300 cleaners, for example; 23-26 per cent for the 76,600 clerical assistants; 25-33 per cent for the 89,600 clerical officers; and 26-36 per cent for 47,200 mlddle-ranking executive officers.

Senior administration staff, about 6,200 up to the rank of Assistant Sacretary, would according to the unions he entitled to rises of 40-50 per cent. The unions claim that the figures clearly show how the Permanent Secretary are not private sector has got around covered hy the system at all, pay limits imposed by the hut are examined by the Top private sector has got around pay limits imposad by the Government's incomes policy in the past. The Society of Civil and Public Servants, which represents executive officers and has been most eager for action, estimates that under Stage One

of the Callaghan Government's

All this arises because the

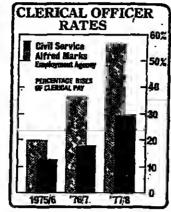
Rent Act hestows indefinite

security upon the tenant and his

Two: and 16 per cent compared with 9.5 per cent under Stage

The PRU system was intro-duced in 1956 to take Civil Service pay out of the political arena, Detailed job-for-job comparisons are made between Civil Service pay rates and rates in a "representative" sample of public and private sector com-

Very broadly, the clerical officer and assistant grades com-pare with office clerical staff, tha executive officer grades with lower to middle management, and the grades of Principal. Senior Principal and Assistant Secretary with higher middle and more senior management. The three too administrative grades of Under Secretary, Deputy Secretary and finally



Salaries Review Board.

Reports on the PRU findings are passed to the Civil Service Department and the unions, and an elaborate system of evaluation takas place. Negotiation then determines how precisely to take account of elements pay policies staff in similar jobs to take account of elements ciercal officers, left the Service. in the private sector received such as company bonus pay. After a special settlement to

The system has been criticised

The system has been criticised for not putting enough value on the considerable advaotage of index-linked pensions and joh security enjoyed by civil servants. Their pay is adjusted in three ways to take account of pensions. Male civil servants pay a 1½ per cent levy for family benefits. PRU settlements are reduced by an amount equivalent to that paid by those in comparable johs elsewhere as examined by the PRU; and a further deduction, based on an assessment by the Government

per cent in 1976. The Callaghan Government's series of pay restrictions has reversed the treat, with 11.5 per cent leaving lovernment's series of pay restrictions has reversed the treat, with 11.5 per cent leaving lovernment's series of pay revisitions has reversed the treat, with 11.5 per cent leaving lovernment's series of pay revisitions has reversed the treat, with 11.5 per cent leaving lovernment's series of pay revisitions has reversed the treat, with 11.5 per cent leaving lovernment's series of pay revisitions has reversed the treat, with 11.5 per cent leaving lovernment's series of pay revisitions has reversed the treat, with 11.5 per cent leaving lovernment's series of pay revisitions has reversed the treat, with 11.5 per cent in 1976. The Callaghan Government's series of pay revisitions has reversed the treat, with 11.5 per cent in 1976. The Callaghan Government's series of pay revisitions has reversed the treat, with 11.5 per cent leaving lovernment's series of pay revisitions has reversed the treat, with 11.5 per cent leaving lovernment's series of pay revisitions has reversed the treat, with 11.5 per cent leaving lovernment's series of pay revisitions has reversed the treat, with 11.5 per cent leaving lovernment's series of pay revisitions has reversed the treat, with 11.5 per cent leaving lovernment's series of pay revisitions has reversed the treat, with 11.5 per cent leaving lovernment's series of pay revisitions has reversed the treat, with 11.5 per cent leaving lovernment's series of pay revisitions has reversed the trea

of differences, including index-linking, between civil service and other pension schemes.
In the last PRU settlement, hefore it was suspended in 1975 at a time of pay controls, the offect of these calculations was to reduce pay rates by about 7 per cent, of which 13 per cent was the Government Actuary's assessment of the value of pen-

sion privileges.
Critics argued then that as the rate of inflation had risen to 27 per cent that valuation was far too low. The unions, which are now negotiating on the hasis of the new as yet undisclosed valuation of the Government Actuary, are wary of talking about such

Joh secority is more generally regarded as unquantifiable, though for many workers and staff for whom redundancy is at least a possibility—and for white-collar staff particularly so with the advance of the industrial use of microprocessors-it is nevertheless important.

Recruitment to the Service.

particularly in the cierical and executive grades, has been seen as an economic barometer because of the job security offered though the staff cuts in recent years and the pattern of Civil Service pay may have reduced the value of security. In 1973, under a Conservative pay policy, 12.6 per cent of one of

correct pay policy anomalies, the proportion fell sharply to 7.4 per cent in 1976. The Callaghan

assessment by the Government Actuary, is made to take account Disputes over pay have left permanent scars on the Service's industrial relations. Selective and limited strikes in 1973 led to the establishment of a study group called the Wider Issues Review Team which had the co-operation of the Civil Service unions to examine the "coosiderable unrest" in the Services.

The team's report in 1975 pointed out that the character of the Service bad changed:
"Other jobs have hecomeettractive and more widely
available to those who meet the rvice's recruitment standards, and today the very much larger number of executive officer entrants do not regard the Civil Service or themselves as very special."

### Unprecedented

The Government's original offer, tabled a week ago, of 7 per cent stirred even those moderate unions which had heen bolding back from action into anger. Even the First Division Association, which repre-sents 10,000 senior civil servants, some up to the rank of under-secretary took the unprecedented step of deciding to advise their members to take part in today's action in a move which deeply Ministers. disturbed

The two unions which have most volatile grades, the led the pay fight, the Civil and ical officers, left the Service. Public Services Association, which represents about 119,000

An unusual view of Whitehall, headquarters of a restive British Civil Service. Civil Service clerical staff, and the Society of Civil and Public Servants, representing 105,000

new offer. The FDA, the Institution of Professional Civil Servants and tha Association of Government Supervisors and Radio Officers are nnw prepared to recom-mend acceptance. But the unions with a greater number of lower paid members and lower rises due from PRU like the Civil Service Union and the Inland Revenue Staff Federation are more sceptical, and acceptance of the offer even by some of the moderate unions is

by no means secure.

executive grade, said there was no basis for settlement in the

Long-term damage to the machinery of Government done by the strike could be severe The CPSA and the SCPS estimate that so far their campaign of selective strikes, aimed action has stemmed partly from the growth of Civil Service work, to the Government and to private industry, has halted payments totalling £960m (a figure As legislation has grown more that the Government disputes) that the Government disputes). All company searches and new

Bonds and the issue of coinage risen from 493,000 in 1970 to have all been stopped. risen from April last year. Scottish courts have been closed down, Foreign Office and

GCHQ Cheltenham communica-tions batted, RAF maintenance work disrupted, and driving tests cancelled. The VAT computer centre at

for five weeks halting the pro-cessing of VAT returns. Accord-ing fo Mr. Denzil Davies, Treasury Minister, it has held up VAT repayments of £240m. The unions say the computer has to operate for 24 hours a day, seven days a week, in order. to deal with day-to-day work. There is no computer time available to deal with the mounting backlog with any urgency, so that the computer may never catch up with the

been halted. Payments to despite staff cuts and the defence contractors, VAT repayments, farm subsidies, unlessity and industry.

repayment of National Savings non-industrial civil servants has

In 1970 there were 103 major administrative computers in the Service. Today the number has all but doubled to about 200. About 14,000 civil servants are engaged in computer work, though the unions have been Southend has been closed down able to achieve the effects they for five weeks halting the processing of VAT returns. Accordstaff who throw the switches. At the Ministry of Defence computer at Liverpool, for example, which is responsible for the pay-ment of all MoD central contracts to industry only eight were called out.

Both unions and the Civil Service Department agree that many of the industrial relations problems pointed out in the Wider Issues Review Team's report in 1975 have in fact been dealt with satisfactorily. But the present strikes confirm that the report's central finding still holds good: "Pay has bean the single most important cause of discontent in the Civil Service -there remains a deep and growing anxiety about the future of Civil Service pay. The most important thing for the well-being of the Service is to keep its pay right."

# Letters to the Editor

# Buying on

From Lord Balogh. Sir.—Samuel Brittan (March 29) ridicules the economists who pay attention to the current balance of payments. Does he not in his private life differentiate between income and borrowing? True enough, if the borrowing results in an offsetting increase in productive capacity, it is advantageous. But can he really maintain that Britain, as a country, has lately done so rather than buying foreign durable (mainly consumption) goods on tick? Thomas Balogh. Balliol College,

### **Problem** solved

From Mr J-C Koeunc the "unsolved theoretical problem" Samuel Brittan uncovered on March 8—"Hopes, risks and a But with the landlord in that bit of theology"—already been position the Labour Party not raised and solved by Professor Robert Mundell?

In bis "Capital mobility and stabilisation policy under fixed and flexible exchange rates" you will find, I think, "some rigorous professional discussion of these abstruse matters." Here's a sample quotation: "Assume an increase in Govern-ment spending financed by Government borrowing. The increased spending creates an excess demand for goods and tends to raise income. But this would increase the demand for money, raise interest rates, attract a capital inflow, and appreciate the exchange rate, which in turo would have a depressing effect on income. In fact, therefore, the negative effect on income of exchange rate appreciation has to offset exactly the positive multiplier effect on income of the original increase in Government spendring(...) Fiscal policy thus completely loses its force as a domestic sts hiliser when the exchange rate is allowed to fluctuate and the money supply his hald constant." is held constant." Jean-Claude Koeune. 53 Parklaan, 1980 Tervuren,

## Landlord and tenant

From the Press Officer.
Small Landlords' Association.
Sir.—On March 26 "Justinian" rehearsed the sad story of the council tenant who lost his right in purchase his council house for one-fifth below its market

As he implies, no council tenant has the right to compel his landlord to sell to him. Nor has the private tenant. But in practice it often happens. The probability is that well over 1m dwellings in tha private rented sector have been sold to sitting tenants at prices much more than one-fifth below the true

How does this come about? In the case of dwellings subject to "cootrolled" rents which have been frozen at hetween 35p and \$2.70 per week since 1957, the sale often arises because the landlered grant arises the first descriptions. landlord cannot raise the finance for heavy repair bills. These properties get sold at ebout 10 per cent of the true value and the sitting tenant pockets a large The whole question of contracts. These are normally capital gain which is not even reinstatement value needs described as 'forward physical subject to capital gains tax. examination, for if the com- contracts' with their ultimate panies want the extra premium, fulfilment heing by a payment

ing an impossible relationship they should at least guarantee for, and the delivery of, the with a tenant sells out in despayment of the sum insured. with a tenant sells out in despayment of the sum insured.

peration and despair. Sometimes

Peter R. James. the tenant will deliherately 102, Insley Gardens, aggravate that relationship is the bope of getting the property off the landlord cheaply. Hucclecote, Gloucester,

# pensions

children and grandchildren and From the Monaging Director, compounds this with un-economic rents. So called "fair" rents cover about 20 per cent of true costs. Sales of "fair rented" dwellings to sitting tenants are usually at about one third of the true value of the property.

Supposing it was the other to which they are always referway about. Supposing the tenant ing on matters of "comparability"

—must find the money for them less than economic rent had to pay 80 per cent more. Supposing standing and resenting the the tenant who was bonded indefinitely to the land-

lord and could only sever the tenancy agreement by paying the landlord two-thirds of the value of the property.

### Parliament in general and the Labour Party in particular piper would be jumping up and down. rom Mr. J. Towlar

John Cherrington's seosible stance towards the Common Agricultural Policy (Lomhard: March 27) and the European only seeks to justify the Rent Act but intends to make it even more onerous upon the land-Economic Community will ruh off on to the Conservative Party. Meanwhile, of course, land-lords fortunate enough to get Although recent speeches by vacant possession either do not relet or seek to let outside the Shadow Ministers John North and John Biffen suggest that Rent Act through the loopholes of licences, holiday lets and company lets. Reprehensible there are seeds of a common approach towards the says the Labour Party-these EEC. there is still a great deal abuses must be stopped. It does of ground to he covered. For not sec that far from being ahuses these loopholes are the far too long Tory attitudes on Europe have been ambiguous only way the private landlord and, at times, distinctly "wet." Moreover, as Britain is set

can retain his sanity and the value of his property. G. F. Cutting, Small Landlords' Association, 7 Rosedene Avenue, ames Towler.

### Reinstatement value

From Mr. P. Jomes
Sir,—The judgment in Leppard v The Excess Insurance
Company on February 28,
reported in The Solicitors
Journal of March 16, raises the unfair position that thousands of consumers are in ris n vis their household insurance.
The British Insurance Associa-

tion and its member companies have been involved in a massive campaign to persuade people to insure their property for reinstatement value. This has brought in enormous amounts of additional premiums, mainly through their building sociaty agents. This has been done in the certain knowledge that in insurance law they are under no obligation whatsoever to give reinstatement value, and in fact, the occasions when they would are few and far between.

What concerns me is what method, if any, can be adopted to refund the excess premium to the insured, who, at the in-surance company's behest has insured for a value, which, in the event of a claim, they would not pay. Mr. Leppard has some consolation in that at least the excess premium paid will be refunded, but of course, millions of people never have a claim and in consequence, vast amonnts of premiums are being collected for which no corre-sponding indemnity is being granted.

# Civil Service

House Information Services.
Sir.—Civil Servants, in rejecting the Government's pay offer, keep very quiet about their as long as it can while under-A. Barrie.

1, Cresswell Park, Blackheath,

# Paying the

Sir,-It is to be hoped that

to become the largest net contributor to the EEC budget, we would do well to heed the adaee that "he who pays the piper calls the tune."

25 Moseley Wood Lame, Cookridge, Laeds.

### Gambling and hedging

From the Managing Director, Commodity Analysis
Sir.—Mr. A. H. Hermann—
your Legal Correspondent—in
his otherwise excellent article on commodity dealing under the heading "Business and the Courts" (March 29) appears to have made some erroneous statements based on a misunderstanding of the difference between 'futures' and 'forward physical contracts', and to have spoilt a rather well written, clearly described article by adding his personal note on the ethics and

the of

commodity

economies

The purchase, sale and trans shipment of raw materials around the world is normally undertaken by merchants who from time immemorial have been criticised by either buyer or seller because prices are too high or too low, and that they have profited at the expense of the commodity. Nevertheless their function is necessary to conduct an ordered and smooth flow of trade. By necessity they have to buy and sell to and from each other. Very often the number of merchants involved hetween the original seller and the ultimate consumer may be numarous and if the delivery period is some time in advance they have to enter into forward

a number of people involved it

is known as a 'string' or a chain of transactions. Mr. Hermann states that "is the question of whether commodity futures of this type should be treated as real contracts of sale." It is important to note that these transactions are not 'futures' Futures contracts are identical contracts in quantity and quality as traced on a futures exchange. The purchase and sale of futures contracts can be indexed pensions which we all sale of futures contracts can be know will ruin the nation matched instantaneously and

settlement can be made by the payment of differences. fulfilment of the obligations of -must find the money for them a futures contract (either the payment of the differences or the delivery of goods) is normally undertaken by a clear-ing bouse, whereas the fulfil-ment of the obligations of a forward physical contract are undertaken by the principals themselves. In referring to two types of commodity deals, as Mr. Hermann purs it "the supply on one hand and the gambling on the other" he

seems to have become confused

between futures and forward

contracts.

The second point with which would take issue is that he seems to he taking some sort stance in his last sentence when he states "a fresh look at the commodity trade might prove useful to consumers and traders alike." would like to point out that this is a subject which socially and ecnnomically has been takk: issue for very many years and as recently as May 1977 there was printed by the House of Lords the Minutes of the Proceedings of the Select Committee on Commodity Price which investigated the Issue at great length and with which I suggest Mr. Hermann makes himself familiar as it dispelled normally associated with commodities — namely the differences between speculatory sambling and hedging.

D. M. Anderson.

Commodity Analysis. 37-39 St. Andrews Hill, EC4

# Balanced

views From the Mnnaging Director, Executive Search Sir,—During the damagin

strikes we have suffered over the past few months, the trade at us in the media by members of the TUC, trade union leaders, shop stewards and even picket-ing strikers. All those not so loser, have not been heard in

the same proportion.

Why cannot the CBL the Institute of Directors, chairmen and managing directors, even individual managers, find a way of matching this presentation, speaking up to put over their views of the national interest, thair aims for industry, and the results which can be expected by everyone from their approach to a disciplined, creative, productive, goal-

oriented team effort?
Such a presentation will he the more necessary during a period of electioneering when politicians of all parties tend to hlur the real industrial issues. Let people make up their minds on the basis of fair and equal representation in the media. Executive Search.

8a, Symons Street.

**Today's Events** GENERAL Mrs. Shirley Williams, Educa-

tion Minister, speaks at Associa-tion of Professional, Executive: visits President Sadat of Egypt in Clerical and Computer Staffs Cairo. . conference, Blackpool. OFFICIAL STATISTICS

Herr Andreas, von Buelow, West German Defence Minister, talks in London with British counterpart on security and alliance policy.

Overseas: EEC Foreign Mioisters two-day meeting in Luxembourg to discuss international trade liberalisation (GATT).

EEC Finance Ministers meet in Luxembourg.

for February, published by Department of Trade. PARLIAMENTARY BUSINESS House of Commons: Repre-sentation of the People Bill: Arhitration Bill (Lords), remain EEC Finance Ministers meet in ing stages. Crown Agents Bill, Office Sub-committee. Subject: remaining stages. Consents to Women and Penal System. With President Begin of Israel Prosecutions Bill, remaining nesses: Baroness Vickers and

stages, Pneumoconiosis, etc. (Workers Compensation) Bill. House of Lords: Industry Bill (Money), third reading Nurses, Midwives and Health Visitors Bill, third reading Banking Bill, Final February figures for re-tail sales; bire purchase and other instalment credit business remaining stages. Estate Agents Bill, remaining stages. Independ-ent Broadcasting Authority Bill, second reading. Air Navigation

Order. Carriage by Air Order. Select Committee: Expenditure: Education, Arts and Home

representatives of PROS, ECP and PLAN. Room 6, 4.15 pm. COMPANY RESULTS

Final dividends: H. Brammer and Co. Erith and Co. Freemans (London SW9). L and J. Hyman. national. C. F. Lovell and Co. Low and Bonar Group. Mac-farlane Group (Clausman). Mersey Docks and Harbour Co. Ocean Transport and Trading, Queens Moat Houses, Recklif and Colman, Interim dividends: Scottish Metropolitan Property Company.

COMPANY MEETINGS See Financial Diary on page 9.



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# **BIDS AND DEALS**

# Stronger second half lifts Laird to £11.12m-pays maximum dividend

**UK COMPANY NEWS** 

A SECOND balf profit of £6.29m against £5.08m lifted Laird Group to a record £11.12m pre-tax for the 1978 year compared with £9.09m last time. Turnover for the full period was well up at £151m against £119.2m.

Earnings are shown as 15,32p (14.35p) per 25p share and the divideod is effectively stepped up to 2.982p (2.664p), the maximum permitted, with a final payment of 1.522p. Also proposed is a one-for-10 scrip issue.

After tax of £4.09m which in-

clodes £3.11m overseas—las year's charge £2.52m was all over seas-and an extraordinary debit of £690,000, the available balance came out lower at £6.33m

The extraordinary items is the cost of placing subsidiary Westero Shiprepairers on a care and maintenance basis, after tax. The amount retaioed was £5.03m (£5.41m) after dividends £1.3m against £1.16m.

Net asset value per share is given as 1243p (1117p) at the The directors say that claims for compensation for the nationalisation of Scotlish Avia-tion and Cammell Laird Ship-

builders were made over two years ago and have not yet heen agreed. To date some £1.45m has been received on account.

Laird is also involved in metal iodustry, transport engineering, motor components, other engineering, etc.

Trading Profit -

dividends

Profit before Tax

**Extraordinary** item

Earnings per shara

Dividend pershara

**Retained Profit** 

Profit after Tax

Nationalised companies -

Revaluation of Investments

\* Turnover up by 32%

still no agreement

Results 1978

Turnover

· Tax

**Profit before Tax** 

**Profit after Tax** 

Extraordinary item

Profit available for **Ordinary Stockholders** 

dends

**Retained Profit** 

**Dividend Cover** 

Notes

\*Adjusted for capitalisation resug

1. As forecast, a final divideod of 1.522p net is recommended. This makes a total dividend for the year of 2.982p net, the maximum permitted increase over the 1977 dividend of 2.664p net

(adjusted for last year's capitalisation). A one for

2. The tax charge includes overseas tax of £3.11 million (1977: £2.52 million).

ten capitalisation issue is again proposed.

Earnings per Ordinary Stock Unit

Net Dividend per Ordinary Stock Unit

Net Assets per Ordinary Stock Unit

\* Trading profit up by 30%

# Extraordinary item – reorganisation costs in associated company

A SUBSIDIARY OF DAVID BROWN HOLDINGS LIMITED

\* Nationalisation compensation –

## BOARD MEETINGS Trading, Queens Most Houses, Reckio and Colman. FUTURE OATES

1	The tollowing companies have notified
	dates of board meetings to the Stock
•	Exchange. Such meetings are usually
	excilings. Such meanings are usually
•	hald for the purposa of considering
	dividende. Official indications are not
	evailable as to whether dividends are
1	BA3H3DIB 92 ID MURIURI GIAIDEIIO2 BIG
	interems or finals and the sub-divisions
2	shown below are based mainly on last
)	year's timetable.
	• • • • • • • • • • • • • • • • • • • •

t	Interims:	Scottish	Metropolitar
a	Property.	_	
	Finals: H.	Brammer, E	rith. Freeman: nd J. Hyman
-	Thomas Jou	rden. KCA	international
t	G. F. Lovell.	Low and	Bonar, Macfar
-	lane Group ( and Herbou	(ClansMan). • Ocean	Mei <b>sey Dock</b> : Transport sno
٠		.,	

cent rise in profits last year to £11.1m. Earnings have marginally fallen because of the more normal tax charge and the extraordinary costs of putting Western Shiprepairers on a care and maintenance basis. But the underlying momentum is forward oo the back of heavy capital expenditure. The outstanding jump in sales has come from the transport engioeering division; the rise from £27m to £48m re0ects the pay-off oo orders placed some time ago. More remarkable still is the profits jump on the metal industries side which has chipped in £1.9m this time against £4m in 1977.

First half figures this year will he affected by the bad weather and the road hautage strike. The shares, at 117p on Friday, yield less than most engineering com-Laird Group has come well up at 7½ is comparable with the to expectations showing a 22 per

17.655

1,693

1,693

778

771

500

737

THE

LAIRD GROUP

LIMITED

er 1978 £'000

150,979

11,116

(4,092)

7,024

(690)

6,334

(1,303)

5,031

2.982p

5.1

124.3p

ance basis. It is shown oct of tax.

million has been received on account.

3. The extraordinary item is the cost of placing Western Shiprepairers on a care and mainten-

4- Claims for compensation for the national-

isalion of Scotlish Aviation and Cammell Laird

Shipbuilders were made over two years ago and

have not yet been agreed. To date, only £1,45

12.92p

1977

£'000

13,358

1,299

890

2,189

1.586

2,097

26.33p

4.65p

790

**VO/PER LIMITED** 

Financial results for the

year 31st October 1978

## Goode Durrant sees increase

Autora
B.S.G.
Bank of Scotland
Berwick Timpo
Brown Boveti Keni
Channel Is. & Ind. Inv. Tst.
Chereonese (F.M.S.) Estates
Eact Rand Consolidated
Fothergill and Hervey
Lyon and Lyon
Owen and Owen
Bugby Portland Cament
Taylor Pallister

A PREDICITION that Goode Durrant and Murray Group, the ioternational finance concern pre-tax profit in the year to October 31, 1978, is mada by Mr. Lionel Rohinson, the chairman, in his annual statement.

He expects Rawlings Bros, a wholly owned subsidiary which made a £48,000 profit against a £4.6m loss, to provide an increas ing sbare of group profit.

The group's overseas operations continue to do well, be adds. The store in New Zealand —Kirkcaldle and Stains—has again achieved record profits and the Southern African and American confirming and financing operations also made substantial

contributions.

The group has disposed of its Mozambique interests under a sale agreement conditional and application has been made to the Council of the Stock Exchange for the shares to be admitted to the Official List.

The reduction io group net borrowings—down from £16m to less than £1.5m—has followed the re-shaping of the UK busineses, he says. It has given the group a strong financial hase from which to develop its traditional shipping, confirming progress already and we expect to do better this year, he concludes.

Meeting, Durrant House, EC. April 25, at 10 am.

### NOTICE TO HOLDERS OF MITSUI REAL ESTATE DEVELOPMENT CO., LTD. (METSUI FUDOSAN KABUSHIKI KAISHA)

6 PER CENT. CONVERTIBLE BONDS DUE 1993

BONDS DUE 1983

Prisuant to Condition 5 (C) of the Terms and Conditions under which the above Bonds were issued, notice is hereby given as follows:

1. On March 9, 1979 the Board of Directors of the Company resolved to make a free distribution of shares of its Common Stock to shareholders of record as of March 31, 1979 in Japan, at the rate of 1 new share for each 20 shares hold.

2. Accordingly, the conversion price

Accordingly, the conversion price or the Bonns has been adjusted er-fective homediately after such record date. The conversion price in effect prior to such adjustment was Yen 522 per share of Common Stock, and the adjusted conversion price is Yen 497.10 per chare of Common Stock.

MITSUI REAL ESTATE DEVELOPMENT CO. LTD. By: The Bank of Tokyo Trust

119,241

9,094

(2,520)

6,574

6,574

(1,164)

5,410

\*14.35p

\*2.664p

\*111.7p

5,4

## Dated: April 2, 1979

# **Electronic** On sales ahead from £8.8m 10

Upsurge

at A.B.

Electronic Products Group surged from £154,825 to £580,512 in the six months to December 31,

The directors state that they expect full year figures to top 1977's record £915,000. Profits for 1978 fell to £604,000.

Haifyear earnings per 25p sbare are shown to have risen from 2.8p to 13.7p and the interim dividend is lifted from 2p to 2.5p,

payable on June 6.
Profit was after depreciation of £288,948 (£252,502) and interest of £142,698 (£81,532). Tax took £125,000 (£62,000).

More growth is expected, particularly in the field of thick film micro-circuits, but a combination of UK inflation and the strength

## of the pound is causing increas-ing difficulty from foreign com-KENNING MOTOR

Kennings announces that 559.212 ordinary shares of 25p each have been issued pursuant to the conversion of £391.448 8 per cent convertible unsecured loan stock 1989/94.

The new shares will rank pari passu in all respects with the existing ordinary shares.

Application has been made to

# ASSURANCE

In our report of Prudential's latest honus rates (March 30). the rate for personal pension plans in force for 22 years was

# Japanese funds | Piran ginger for Nabarlek

BY KENNETH MARSTON, MINING EDITOR

WORK at Nabarlek, which is seven scrip issue. The shares to be the first of Australia's were unchanged at 345p in major uranium deposits to the London yesterday. Northern Territory to be hrought to production, is to get under way in May-June now that Queensland Mines has arranged ficancing of the project with its Japanese

The Japanese power utilities Shikoku Electric Power and Kyushu Electric Power, are to lend Queensland Mines a total AS74.75m (£41m). The companies are expected to buy about 60 per cent of Nabarlek's esti-mated potential output of 10,000 tonnes of uranium oxide.

It is intended to mine the whole orebody over about six months. The ore will then be stockpiled and processed over eight to ten years at a production rate of about 1,100 tonnes of uracium oxide a year.
Queeosland Mines hopes by

decision be producing enough of the yellowcake to meet its lapanese delivery contracts. They were signed back in 1972 and until now have been met hy borrowings from the Australian Atomic Energy Commission. Sbikoku's president, Mr. T. Yamaguchi, has stressed that his

company is not seeking any equity stake in Qoeensland Mines or participation rights in

### **UMAL EXPECTS A** BETTER YEAR

This year should be "acceptably good "for both Utah Mining Australia (UMAL) and its 10.8 per cent-owned Utah Develop-The last-named is Australia's largest coal producer and major revenue earner and is 89.2 per cent owned by America's

At the Sydney meeting the UMAL chairman, Mr. C. H. Rennie, added that he saw 1979 as a year of return to growth, although the rise was expected to be gradual in the near term.

### **ROUND-UP**

Wankin Colliery, the Rhodesian cual producer in the Anglo American group, maintained its interim divideod at 3 cents (2.1p) for the year to August 1979. Total payments for 1977-78 were 9 cents. Net income in the six months to February was R159m (fl.1m), a slight decline on the R1.72m earned in tha same period of the previous ear, owing to accounting cbanges.

Last week's severe floods in north. Yorksbire have not affected the controversial potash mine at Boulby of Charter Consolidated's Cleveland Potash. After Its past chequered progress, the mine's fortunes are lielieved to have taken a turo for the better in recent months.

Agnico-Eagle, the Canadian precions metals producer, has lectared ao initial dividend of 10 US ceots (4.86p) for 1979 after a record year whan net profits were \$2.8m (£1.28m) against a loss of \$361,361 in 1978. Prospects are good for this year, the compuny indicated.

Conex Anstralia stated it had resolved its dispute over diamond exploratioo claims with Samantha Mines, Otter Exploration and the Selection Trust sub-sidiary, A.S. Mining Ventures. A Utah International.

The UMAL profit for 1978 bulk sampling programme will declined to AS15.4m (£S.4m) take place at what is now their from AS16.3m. However, the company is making a three-for-

# Vantona expenditure plans

next three years has recently heen completed by individual management of the Vantona Gronp, Mr. James Spooner, the chalrman, says in his annual

The board bas sufficient con-

fidence in the results of this exercise to confirm a programme of capital expenditure costing more than £10m in the next three Both this and the additional

working capital arising will be financed from internal sources,. the chalrmao says. The immediate future gives cause for concern, however, Mr. Spooner states. The first three

this backlog will be recouped as again show a material improve-more normal conditions are ment over last year in spite of restored.

For the rest of the year some fullering in demand because of acquisition of Compton Webb.

possible reduction in purchasing power is a distinct possibility, so that any optimism as to the outcome for the year to November, 1979 has to be very guarded at this stage.

Io 1977-78, profits before tax rose from £6.73m to £7.31m on

turnover of £82.43m against £78.83m. CCA profit is reduced to £5.61m. after adjustments for depreciation, £1.1m, cost of sales, £1.08m and searing, £471,000, 'Again the balance sheet is in

Spooner states. The first three a healthy state. After providing months' sales and profits bave the £9.3m cash consideration for been affected by industrial unrest the Compton Webb shares as well be incurred and therefore no pro-

deliverles have inevitably been. Net current assets are slightly. Meeting, I beld up. It is hoped that most of improved while total reserves at 2.30 pm.

Duriog the year, a subsidiary was involved in negotiations for lbe supply of cloth for use by the Iranian Army. No deliveries have yet been made.

If the arrangements are frustrated due to present circomsiances in Iran, cloth to a value of £640,000, may bave to be taken up with no immediate re-sale arangements existing. It is not possible at present to estimate the eventual outcome of this matter.

So far the group has suffered to the very little loss of production, bot deliverles have inevitably been in the current assets are slightly been in the production. So the current assets are slightly been in the production as record capital expenditure of vision has been made in the accounts for any loss or claim which might arise.

# THE SCOTTISH EASTERN INVESTMENT TRUST LIMIT

The Fifly fourth Annual General Meeting of The Scottish Eastern Investment Trust Limited will be held on Monday, 23rd April 1979 of the offices of the Company, 29 Charlotte Square, Edinburgh, Mr. A. Logan McClure [the Chairman] presiding. The following ore extracts from the Directors' Report for the year to 31st Jonuary 1979:--

Total Ravenue as shown in the Accounts increased from £4.442.099 to £5,085,823 and after charging interest on borrowed money, management expenses and taxation, the reveous available for distribution amounts to £2,778,443 compared with £2.339,348 previously.

The Directors recommend a final dividend of 2.80p per Ordinary Share which, with the locreased interim dividend already paid, makes 4.80p for the year, company with 4.05p last year. After provision for the dividend the revenue carry forward is increased by £181.518.

At the year-end, the total net assets attributable to Ordinary Shares were 245,218,601 compared with £80,613.668 last year. Based on these figures, the Net Asset Value of an Ordinary Share wes 180.3p compared with 152.7p a year ago.

At 31st lanuary 1979, 89.7 per cent of the funds was invested in equities with 34.2 per cent of the total in North America and a further 8.6 per cent in other oversuas countries. 6.2 per cent was held in

OUTLOOK The economies of the major developed countries of the free world made better than expected progress in 1978, all recording real growth in goods and services of at least 3 per cent. This provided a reasonable background for industry and commerce in home markets, but world trade was seriously

reasonable background for industry and commerce in home markets, but world trade was seriously disrupted by international currency movaments.

Currency valoitility has not only created great problems for businessmen and investors, but has also impeded the economic planning and domestic policies of governments. Last November a determined effort was made by the U.S.A. authorities to halt the decline in the value of the dollar. Since then it appears that the major monetary puwers have agreed to act in concert to mitigate currency movements. Although it is hoped that exchange rates will be more stable in 1979, it still seems wise to maintain a broad geographical spread of assets.

Wall Street currently reflects the unease caused by interruptions to crude oil supplies, fears of much higher energy prices, and a period of slower grawth ahead. This may present an attractive upportunity for the long term investor but, with interest rates likely to be held high to combat inflation and protect the dollar, no early change in sentiment is looked for, in London, share prices, as measured by the All Share Index, have recently moved into new high ground. This move seems to

measured by the All Share Index, have recently moved into new high ground. This move seems to have been prompted by the realisation that the United Kingdom now has a relatively secure supply of oil and may soon have a government committed to encouraging private enterprise. However, until it becomes clear that the critical situation in the Middle East can be resolved proceduly, and the governments in London and Washington are fully committed to responsible monetary and fiscal policies, a difficult period about its provided.

governments in London and Washington are fully committed to responsible monetary and fiscal policies, a difficult period ahead is expected.

Estimated future earnings of the companies in which the Trust has investments in the U.K., U.S.A. and the Far East indicate that there is scope for higher dividend income in the year ahead. However, these estimates could easily be upset by events and, rather than committing ourselves to any specific forecast of revenue which might have to be attained at the expense of capital, we prefer to direct our attention to the long term growth of both. At present it does not scan likely that increases in line with those of 1978/79—when both dividends and not asset value were up 18 per cent approximately—will be attainable, but this will be the aim.

CAPITALISATION ISSUE It is proposed to make a capitalisation issue of 52.8m Ordinary Shares of 25p each in the ratio of one new share for each share held. The new shares will not receive the final dividend declared in respect of the year ended 31st lanuary, 1979.

### THE YEAR IN BRIEF

•	Year ended 3 ist January			
Total Revenue Earned per Ordinary Share Paid per Ordinary Share	1979 £5.085.823 5.11p	1978 £4,142,099 4.27		
Total Net Assets attributable to Ordinary Shares Net asset value of each Ordinary Share	4.80p £95,218,601	4.05 <sub>1</sub> £80.613.66		
Prior charges at par Priot charges at market value Numbor of Ordinary Shareholders	180.3p 186.8p 9,000	152.7; 158.4; 9,300		

Copies of the Annual Report may be obtained from the Secretaries. 29 Charlotte Square, Edinburgh EH2 4HA.

# group considers legal action BY JAMES BARTHOLOMEW

THE DISSIDENT shareholders of Saint Piran would bave succeeded in ousting the current board at proxies cast on the boards side bad been discounted as invalid,

Mr. Max Lewinsohn, leader of the rebel group sald yesterday.
Mr. Lewinsohn has heen advised by Coopers and Lyhrand, the scrutineers appointed by bim, that there are crowned for regard. that there are grounds for regarding several of the higgest proxy votes as invalid. He is considering taking lead and the second of the second ing taking less action to remedy the situation this week. Proceedings were "almost inevit-

ahte," he said

It is the proxy votes sent hy some of the seven offshore companies which have hecome so controversial. The dissident sharebolders failed last week to obtain an injenction to prevent obtain an injonction to prevent these companies voting hecause they had given information about their heneficial owoership which was allegedly unlikely to be true. Mr. Lewinsohn conceded yesterday that some of the seven had presented valid proxies but claims that the disputed proxies represented something like 2m votes. The dissidents would have

won the day if these votes were not counted as the board had a majority of 1.3m votes.

Mr. Lewinsohn claimed that shareholders had voted 3 to 1 in favour of throwing out the Board if the votes cast by all seven offshore companies and the company controlled by Mr. James Raper, a former chairman and the higgest single sbareholder,

were ignored. Mr. Lewipsohn noted that at least six of the seven offshore companies had sent their votes from London post boxes despite the fact that the companies were registered variously in Hong Kong, Luxembourg and Panama. Whether or not Mr. Lewinsohn actually does take legal action on the poll, the story is not over. The EGM last Friday was adjourned and will be resumed on Wednesday, April 11, at 2.00 pm.

### MARLEY IN BRAZIL

Marley has increased its hold-ing in Fademac Brazil from 36 per cent to 49 per cent with Eternit of Belgium as the joint partner.

Fademac is investing in excess of £11m to increase production capacities and guild a new floor-ing line to produce Marley's latest domestic flooring. Marley's original investment in Fademac was £312,000. The suc-

cess of the company bas per-mitted a liberal dividend policy and Marley's capital bas been

In the year 1977-78, Fademac earned profit after tax of £1.2m Profits for the first four months the EGM last Friday if certain of 1978 are well ahead of the

hol

previous year. Marley has also entered a 50/56 partnership with Eternit of Switzerland in a new company called Tagula. The company will commence production of concrete roof tiles for the rapidly expand.

Initial investment in Tegula will total over £2 m. This will be the first major concrete roof tile plant in Brazil. Other possible sites are being investigated and it is expected that more factories will be opened over the course. of the next few years. Tegula has established a subsidiary company for the purpose of quarrying aggregates which will be necessary for roof tile

## W. E. NORTON

production.

W. E. NORTON

BUYS SITE

W. E. Norton (Holdings) has
completed the purchase of a
freehold property and development land comprising industrial
premises at Haddenham, Ayleshury, Buckinghamshire. The
vendors are private companies
controlled by Mr. A. D. F.

Controlled by Mr. A. D. F.
Creighton.
The consideration has been satisfied by the issue of 444,965 ordinary shares plus £150,000 cash, payable in three equal instalments on July 1, 1979, Jaouary 1, 1980 and July 1, 1980. The property has been pro-fessionally valued at £235,000 on the hasis of its existing use and its occupation by Norton. its occupation by Norton, making full use of the land and huildings. The valuation exclodes certain items of plant which are being purchased, in particular a

### 25-ton overhead travelling crane. NO PROBES

following The mergers are not to be referred to the Monopolies Commission:— National Enterprise Board and parts of Vickers Offshore Engi-

neering Group;
Comet Radiovision Services
and Caledonian Holdings;
London and Midland Industrials and Caledonian Roldings;
Harris Oncensway Group and Timberland.

# SIMCO MONEY FUNDS Saturn Investment Management Co. Ltd. 66 CANNON STREET ECAN 6AL Rates paid for W/E.1.4.79

12.857

# THOMAS WITTER

AND COMPANY, LIMITED

Manufacturers of Smooth-surfaced Floor Coverings, Broadloom Corpets, Bituminised Roofing Felts. Asbestos Felts, Packaging Board, etc.

### RESULTS REACH RECORD LEVELS ANOTHER GOOD YEAR IN PROSPECT

The 81st Annual General Meeting of Thomas Witter and Company, Limited was beld on 30th March at Chorley. The following are extracts from the circulated statement of the Chairman, Mr. H. Bowser.

For the year ended 30th November 1978 the pre-tax profits rose to a record figure of £1.873.375 against £878.387 last year-

Turnover at £28,483,000 was up 19.70%. The Board recommend the payment on the 4th April 1979 of an increased final dividend of 2.8413443p per share, making of an increased man dividend of 3.541.543p per source. making a total for the year of 3.511.3443p, equivalent to a gross dividend of 20.963% as compared with 19.0575% last year. The record sales and profits in the year were due to bigber productivity and the new developments achieved in our

manufacturing units. Service to customers improved and all products returned increased profits. The continued development of new products and the pursuit of additional outlets for our products both at home and overseas is being vigorously maintained. vigorously maintained.

The returns from our Subsidiaries are still unsatisfactory. Every effort is being made to ensure improvements.

The current financial year started well but the crippling road haulage strike and secondary picketing forced the closure of our telt mill at Heapey for the duration of the strike, and for lesser periods of time at our other factories. These disruptions involved us in a serious loss of production which cannot be made good ond will have an adverse effect on profits. However, we look forward to having in all another good year, provided always, problems not of our making, or beyond our control, are not thrust upon us.

beyond our control, are not thrust upon us.

## LOCAL AUTHORITY BOND TABLE

Authority (telephone number in parentheses)	Annual gross interest	pay-	t Minimum sum	Life of bond
•	%		£	<b>Үеаг</b>
Knowsley (051 548 6555)		ł-year	1.008	5.7
Redbridse (01-478 3020)		}-year	200	4-5
Sefton (051 922 4040)		i-year	2,000	5-7
Wrekin (0952 505051)	. I2 <sup>1</sup>	yearly	1,000	6-10

# FINANCE FOR INDUSTRY TERM DEPOSITS Deposits of £1,000-£50,000 accepted for fixed terms of 3-10 years. Interest paid gross, half-yearly. Rates for deposits received not later than 12.4.79.

Terms (years) 3 Interest % 11 11; 11; 11; 11; 11; 12; 12
Deposits to and further information from The Chief Cashier, Finance for Industry Limited, 91 Waterloo Road, London, SE1 SXP (01-928 782), Ext. 177). Cheques payable to Bank, of England, a/c FFI." FFI is the bolding company for ICFC and FCI.

Edinburgh 19th March 1979

- 12

# Ahold seeking further acquisitions overseas

BY CHARLES BATCHELOR IN AMSTERDAM

AHOLD, HOLLAND'S largest increase sales to non-group to around Fi 10m last year. growth and more effort will go now makes 20 per cent of its years led to a loss of market into improving internal manage—sales and 22 per cent of its ahare, but profits are expected ment, logistics and marketing, operating profits outside Holton improve this year after fall—said Mr. Albert Heijn, the land, Sales of Bi-Lo, which has ing in 1978.

Spending on foodstuffs in Holland this year is expected to rise hy only 1-1.5 per cent following an increase of 3.5-4 per

canteens, while its own food outlets often due to local politi-processing operatings, which cal factors, have held back ex-include a bakery and dairy, will pansion. Sales rose 25 per cent

Sluggish year

for Advertiser

By Our Sydney Correspondent

activities to a profit increase in 1978 of only 6.9 per cent, Earn-

ings for the year to December 31 rose from ASS.9m to a record

A\$9.5m (U.S.\$10.7m). The profit

failed to keep pace with the growth in sales, which rose 14

per cent, from A\$83m to A\$95m (U.S.\$107m).

The group results rose only 1.3 per cent in the second half-

year, after a gain of 1ft.7 per

cent in the first six months. The

directora warned at the half-way mark that the depressed

advertising market would be

for the full year; and the profit

from the newspaper division

fell 5.5 per cent for the year.

Advertiser, the major publica-

tion, dipped fractionally.

Newspapers

103 stores in the South Eastern
U.S., rose 15 per cent to \$460m its operations into five largely

The company nevertheless of opening 10 new supermarkets plans to open a further 25 will also depress profits. In stores this year in some cases spain, Ahold does not expect to replacing amaller stores, 11 to 150 million. The costs of which reports directly to the group Board.

The company described 1978 are the costs of which reports directly to the group Board.

The company described 1978 are the costs of which reports directly to the group Board.

The company are the costs of which reports directly to the group Board. 670 outlets in Holland and 108 It hopes to open a further three move into the operating of staff ing huilding permission for new

supermarket chain, expects it retailers.

The company will continue will he difficult to maintain net prosit margins in 1979. After a period of strong expansion the its integration into the group, atores in Holland this year. Dutch retail trade must now Ahold is now looking at other Tough competition from lower accept more moderate rates of potential acquisitions abroad. It priced competitors in recent

Bi-Lo profits. expressed in dollars, are expected to be unchanged in 1979 due to the slow rate of economic growth and rising inflation. The costs of opening 10 new supermarkets which reports directly to the

earlier announced a 32 per cent in the U.S. and Spain. It sees stores this year, hringing the rise in net profit to F1 48.6m good prospects for its recent total to eight. Delays in gain (\$24.3m) on sales 19 per cont (\$24.3m) on sales 19 per cont higher at Fi 4.94hn (\$2.47bn).

# Scrip issue from BHP

BY JAMES FORTH IN SYDNEY

ADVERTISER Newspapers, the media printing and packaging group, was held by its media or more than was earned in the full 1977-78 year.

The increase was largely due acrip issue, it would still come to a turnaround from losses to out to almost 70 cents a share.

AUSTRALIA'S largeat company profits by the steel division—Broken Hill Propriatary (BHP), BHP is the country's only steel has announced a one producer—and higher earnings for-five scrip issue—its from the oil and gas division. first handout to shareholders Demand for steel is improving since 1974. The issue and higher production and comes only a few weeks after prices in the second half should the company announced a sharp jump on profit for the November half-year to A\$87m (U.S.\$97m), basis earnings, per share would have risen from 31 cents a share to more than 80 cents. On year-

# Avco profits move up

BY OUR SYDNEY CORRESPONDENT

reflected in lower media results result followed an increase of average cost of horrowed funds almost 17 per cent in total edged up from 11.41 per cent receivables, from A\$157m to to 11.93 per cent. The circulation of the Adelaide

AVCO FINANCIAL Services, A\$183m, of which consumer one of Australia's leading shop loans accounted for A\$163m front financiers, lifted its profit compared with A\$138m hy 9 per cent, from A\$10.3m to A\$11.2m (U.S.\$12.5m) in the business during the year rose November 30. The from A\$91m to A\$104m. The

end capital iocreased by the

options, it said.

# **Texaco sets** Lifo rules on foreign inventories

By David Lascelles in New York TEXACO, the third largest U.S. oil company, has exten-ded last in first out (Life) accounting to its foreign inventories since the begin-ning of this year, the company announced at the end of Texaco has been applying Life accounting to domestic inventories of crude oil, petroleum and petrochemicals extend this form of accounting to foreign inventories so

as to register the effect of increased costs on earnings more promptly, it said. Most of the large U.S. oil companies have been using Life occounting for some years, and particularly since the last fuel price explosion

last week.

In 1974 In inflationary times, Life has the advantage of reduc-ing tax liability, but at the cost of lowering profits as well. However, high profits have proved to be more of a curse than a blessing to oil companies at times of energy erises, and Life therefore serves a useful purpose when oil companies want to avoid accusations of profiteering.

### Cont. American has Canada bid

NEW YORK - Imperial Life Assurance of Canada plans to make a tender offer for Continental American Life Insurance for \$33 a share

The proposed offer would be conditioned upon Imperial receiving at least 494,027 shares of Continental American. 50.1 per cent or the total shares outstanding or issuable, subject to stock

Imperial noted that it had heen discussing a merger with Continental American since December, 1978, but that Continental American had deferred action on the proposal until May 1, 1979. Renier

# For the convenience of readers the detes when some of the more important company dividend statements may be expected in the next few weeks are given in the following table. The dates shown are those of last year's annuncements, except where the forthcoming Board meetings (Indicated thus\*) have been pfficially published. It should be emphasised that the dividends to be declared will not necessarily be at the amounts or rates per cent, shown in the column headed "Announcement last year," Preliminary profit figures usualty accompany final dividend announcements. Announce-

Qa Qa	te	Announce- ment last		te	Announce- ment lest year	
Assocd. Biacuit		Assi	MinetApr.	27	Final 1,271	
	40	F		28	LIURI 1*511	•
ManufetraApr.	10	Final 1.88 lcst.	*Morgan	-	PARTIE STORY	
Aurore	9	Final 3,98	CrucibleApr.	5	Finel 2.204	
Babcock and			Mothercers May.	4	Final 1.904 .	
WilcexApr.	12	Final 9.892	Mowiem			
ank of			(John)Apr.	20	Final S.O	
ScotlandApr.	3	Final 5.449	Nat. and Comm.	_	1 II-91 2.0	
BAITOW	•			4	Les & Street	
HopbumMar.	я	Final 1 9331	BeakMay	~	Int. 1.375	•
Alue Circle	-	1 1161 7.0001	*Ocean	_		
		Figel 6.4523	TransportApr.	2	Final 4.3273	
IndsApr.	15	Final 5.7864	OlrazApr.	5	Finel 2.34	
aowatorAgr.	5	- INN 3.750+	Pesil		•	
Aritiah Home	_		AssuranceApr.	8	Final S.735	
StoresMax	Z	Final 3.473	Peamon			
antish Printing	_		LongmanApr.	21	Final 4.236	
CorpnApr.	5	Final 2:4-fcst	Pearege (S.) Ans	34 .	Finel 4.809	
Antich SugarMay	3	Int. 1.65	Pearson (S.)Apr. P and GMay	4	Finel 3.542	
Srown Soverr			P Mild GWay	2.		
KontApr.	5	Final 1.0	Phoenix Asacs. Apr.	5	Final 5.77	•
Cadbury	-		Ready Mixed			
Schweppes Apr.	5	Final 2.09143	ConcreteApr.	13	Final 3.27	
Cape Inda Apr.	ă		*Reckitt and			
Cope inusApr.	n	Final S.302	ColmanApr.	2	Final S.95478	
Conad.			*Reed	_		
Gold FieldsApr.	4	Int. 3.1815	·· (Austin)Mar.	29	Final 1.858	
Corel Leisuse Apr.	20	Final 3.6 fcst.	Rowntree		111101 1.000	
Crode Intol Apr.	11	Final 1,192			Elent & 4175	
CurrysApr.	17	Final 4.54	MeckintoshApr.	9	Final S.4175	
Oickinson			*Rugby Portland			
Robieson.:.Apr.	10	Final 4.448	CementApr.	23	Finel 1,808	
DunlopApr.		Finel 2.65	Saineb'y (J.) May	3	Finel 3.987.	•
			Scottish			
Engle SterAnı.	12	Figel 3.1262	Met PropApr.	. 2	Int. 0.2 .	
Entoberu			Sears Hidgs Mey		Final 2.58	
FornegApr.	25	Finel 1.8	Simon	-	1 11/101 2-00	
Gerrard Nat.			EnginsenngApr.	24	Froat 5.0652	
Oscount. Api.	26	Final 4.171		24	PIG81 3.0032	
Gill end .			•Sloveh			
OulfusAgr.	10	Fig. 2.564 lcst.	EstatasMai.	25	Finel 1.515	
GlaxoApr.		Int. 4.5	*5mith (W. H.) Apr.	11	Frne I 0.2978	
GlynwadApi.	11	Figel S.75	Smithe IndsApr.	10	Int. 3,2853	
CiyirwedApr.	••	FIGel 3.79	Smurfitt			
Guardian Royal			(Jeffersoo)Apr.	<b>27</b> '	Figal 4.857	
ExchangeApr.	71	Final 5.9304 '	Spirax-Sarco Apr.	3	Final 5.19	
Guest Keen and	_		*Sun Affiance Apr.	ž	Final 9.245	
NettialoldsApr.	5	Final 10.059			Finel 6.234	
Hammerson Prop.			TarmacApr.	2,	F11/61 Q.234	
and invApr.	28	Final 5.46	PTaylor	-		
Rawker	_		WoodrowApr.	5	Fin: 6.4853 fca	ĸ
SiddeleyApr.	12	Final 2.20T	*Telephone .			
			RentalsApr.	25	4.3	•
Hapworth (J.) Apr.	21	Int. 0.72	Tozer Kamaley			
Hawden			& Millbourn Apr.	25	Firmal 2.2702 .	
Swart, Aor.	10	Final 0.8684			) III	•
Howdan			Travis and	25	E1 2 1210	
(Alexander)Mar.	29	Final 4.09	AmoldApr.	20	Final 3.1219	
LWTMer.	30	Int. 3.556	UOSMay	4	Figal 3.0	
Ladheska Ans	-5	Final 4.0	VickemApr.	27	Final 5.0964	
LadbrokeApr. Coing (J.)May	3	Final 1.869	Wadham			
Laing (J.)May			Stringer May	2	Final 1.21	
Leed IndsApr.	11	Final 4.37	Wimpey	_		
London arick Apr.	5	Final 1.9602	(Coorne) Ans	27	Final 0.6810.	
Law and			(George)Apr.	2,	0.0010.	
Ronar Ant	•	Eural 7.39				

Board meepings intimated. † Rights issue sace made. & Tex free. & Scrip

CORAL INDEX: Close 531-536

Bonar,...Apr. 2 Funal 7.39

Marks and Spencer...May 3 Final 2.544

LG. Index Limited 01-351 3466. 29 Lamoot Road, London, SW10 0HS. 3 months Copper 1022,1-1030.4 Tax free trading on commodity futures.

The commodity futures market for the smaller investor.

### **INSURANCE BASE RATES**

† Property Growth 12% † Vanhrugh Guaranteed 10,50% t Address shown under Insurance and Property Bond Teble.

CLIVE INVESTMENTS LIMITED 1 Royal Exchange Ave., London EC3V 3LU, Tel.: 01-283 1101, Index Guide as at March 20, 1979 (Base 100 on 14.1.77) 

ALLEN HARVEY & BOSS INVESTMENT MANAGEMENT LTD. 45 Cornhill, London, ECSV 3PB: Tel.: 01-623 6314.

Index Guide as at March 29, 1979 Capital Fixed Interest Portfolio .....

# - 194 150 | TAppl. Computer | 20/2 174 | 53 | Caledonian Hidgs. | 16/2 170 | 148 | Hunting Assoc. De | 9/2 42. 51. M. Y. Dart Defd. | 20/4 182 | 97 | Sedgwick F.New1

EQUITIES

£	본은	# E .	Ī			말다	
10	髻	Date	High.	B/79	Stock	Closing Price &	-
	F.P.	23,2	85p		Chapstow Race's 52 Cnv. Uns. Ln. 1288	. 65p	
993 <sub>4</sub>	F.P.			295 <sub>4</sub>	Grant (James) 1042 Pref	105p	) 
a8	£20 F.P.	27/7	10112	aa		24 1011 <sub>2</sub> 107p	+ 16
7212	=	14/6	79	. 70 to	Lyles (S.1 11% Cum. Pref MEPC 612% Conv. Uns. Ln. 1995-2000 Mid-Southern Water 8% Red Pref 1984	78,4	(-1
88	F.P.	19/3	1000	955	Shaw Carpets 10% 9nd Cum- Pref.E1	Inob	,

### "RIGHTS" OFFERS

Issua Price	d up	Rent	Inc.	197	8/9		Ciceing prices pt	+ 0
Price	F-	Da	_	High	Low	Stock	95_	
116 60 88 820 33 185 57	P. P. D. D. D. D.	50/3 6/3 50/3 14/2 22/3 25/3 7/8	27/4 97/4 6/4 4/5 18/5 20/4	509 43 233 109	65 108 258 38 210 741	Brammer (H.)	108 996 49 228 103	+ 5 + 2 - 6 - 4 - 2 - 5
995 59 37 315	F.P. F.P.	12/3 28/5 14/3 12/3	_	294 pm 298 79 37 406	251 pm 252 73 35 245	Park Place Invs. Rank Org. Rank Org. Radman Heenan.  Sakers Inti	25pm 288 78 SS 390	+ 1  + 1  - 12  - 12

Renunciation data usually lest day for dealing free of stamp duty, b Figuras based on prospectus estimate. a Assumed dividend and yield, a Forecast dividend; cover based in previous year's samings. F Dividend and yield based on prospectus or other official septrates for 1979. Q Gross. T Figures seaumed. Cover allows for conversion of shares not now ranking for dividend or ranking only for restricted dividends. S Placing price to public. pt Pence unless otherwise indicated. I Issued by tender. I Officred to holder of ordinary chares no a "rights." Issued by way of capitalisation. S Reintroduced. It Issued in connection with reorganization, merger or take-over. [II Introduction. I leeved to former preference holders. I Allotment letters (or fully-paid). S Provisional or pertly-paid allotment letters. 4 With warrants, 11 Unlieted security.

A.B.N. Bank

### **BASE LENDING RATES** Allied Irish Banks Ltd.

	A.B.N. Bank 13 %	•	Hamnros Bank	19 .	ì
	Allied Irish Banks Ltd, 13 %		Hill Samuel	13 9	0
	Amro Bank 13 %		C. Hoare & Co	13 '	4
	American Express Bk. 13.%		Julian S. Hodge	14 '	0
	A P Bank Ltd 13 %		Hongkong & Shanghai	13 9	9
	Henry Anshacher 13 %		Industrial Bk of Scot.	13 🛊 (	Q
	Associates Cap. Corp 14 %		Keyser Ullmann	13	ą
	Banco de Bilhao 13 %	٠.	Knowsley & Co. Ltd	144	٩
	Bank of Credit & Conce. 13 %	•	Lloyds Bank	13 4	٩
	Bank of Cyprus 13 % Bank of N.S.W 13 %		London Mercantile	13 9	ļ
	Bank of N.S.W 13 %	•	Edward Mauson & Co.	14 4	η
	Banque Beige Ltd 13 %		Midland Bank	13 9	9
	Banque du Rhons et de	•	Samuel Montagu	19 7	٠
	la Tamise S.A 131%	-	Morgan Grenfell	13 9	9
	Barclays Bank 13 %		National Westminster	13 -9	ł
	Bremar Holdings Ltd. 14 %		Norwich General Trust	13 9	١
	Brit. Bank of Mid. East 13 %	•	P. S. Refson & Co	13 9	Ì
	Brown Shipley 13 %		Rossminster	13 9	
	Caneda Perm't Trust 13 %		Royal Bk. Canada Tst.	13 9	Ì
	Cayzer Ltd		C-11-1-1-1-1	40 /	•
	Cedar Holdings 13 %		E. S. Schwah	14 9	į
I	Charterbouse Japhet 121%		E. S. Schwah	14 9	k
	Choulartons 13 %		Shenley Trust	15 9	į
	C. E. Coates 13 %		Standard Chartered	13 9	Ė
	Consolidated Credits 13 %		Trade Dev. Bank	13 9	į
	Co-operative Bank *13 %		Trustee Savings Bank	13 9	ŕ
	Corinthian Securities 13 %		Twentieth Century Bk.		
	Credit Lyonnals 13 %		United Bank of Kuwait		
	The Cyprus Popular Bk. 13 %		Whiteaway Laidlaw		
	Dúncan Lawrie 13 %		Williams & Glyn's	13 1	į
	Paril Truct: 12 0		Martin Design	12 0	ř

Duncan Lawrie 13 %

Eagil Trust 13 %

Fagil Trust 13 %

First Nat. Fin. Corp. 16 %

First Nat. Fin. Corp. 16 %

First Nat. Sees. Ltd. 14 %

Antony Gibbs 13 %

Greybound Guaranty 13 %

Grindlays Bank 113 %

Guinness Mahon 13 %

Subsequently Subsequently

# CURRENCIES, MONEY and GOLD

# **Sterling and the EMS**

BY COLIN MILLHAM

I Sterling, the only Common frace. Later on trading resumed, weakest: Last Mooday and Tues Market currency outside the and after intervention the punt day the krone was the strongest European Monetary System, was reireated behind the Italian lira member of the EMS, but rethe cause of more problems last and Danish krone, even though turned that honour to the lira on week than any of the currencies actually embraced by the system.

The reason was the pounds link with the Irish punt, which the Irish central bank was forced to break on Friday morning. Trading in the punt was suspended at the same time, as the Irish currency rose above ils highest per mitted level against the weakest member of the EMS, the Belgian

### **CURRENCY RATES**

March 28	Bank rate	Special Orawing Rights	European Currency Unit
Sterling	18	0.622018	0.655152
u.s. s	912	1.28688	1.55172
Ganadian 5	1114	1.49548	1.56775
Austria Sch.			18.5118
Belgian F	6		59.9434
Danish K	8	6.68063	7.01814
O mark	5		2.59529
Guilder	Š.	2.59166	8.72291
French Fr	912		5.80903
Lra	, 1012 I	1080.80	1135.45
Yeп		989.581	283.456
Hrwgn. K	7	6.57308	6. <del>9</del> 0585
Spanish Pes	. 8	87.7588	92.5855
Swedish Kr	612	5.68588	S.90669
Swiss Fr	1		2.28820

sterling continued to rise.

For the first time since the system hegan on March 13, the member. It displaced the Italian lira, which during the early part of the week had vied with the Danish krone for the position at the head of the EMS.

When the EMS was first suggested by the leaders of France and Germany it was the fear of the strain on weak cur-rencies which made Britain, Ire land and Italy hesitant about joining. It therefore seems some what perverse that the currencies of three of the poorer members of the EEC should have German Dmark has depreciated.

Apart from this the new system does hear some com-parison with the old European currency soake. Over recent months the Danish krone was the strongest member of the snake,

## GOLD

	. Mar. 30	Mar. 29
Gold	Buillon tline	ounce, '
Close	. 523814-239 £115.4-115.8	\$241-2415
Opening	5240-2402	\$24134-2421
	\$239.55	5241.60
fixing	5240.10	12177.6991 5241.60
fuxing	(£115,878)	E117.564)
	Coins, dome	

Gold Goins, Intern Krugerrand, \$2445, 2463, \$2471, 2491

Over the course of last week the movement of currencies from their central European curreocy New 302-04 Sovereigns £30-31 Old 5744-764 Sovereigne £56-57 \$20 Eagles \$316-321 \$10 Eagles 5175-181 \$5 Engles 5175-181

### OTHER MARKETS

weaker hrethren.

Wednesday and Thursday.

The Dutch guilder, French

franc. Dmark and Belgian franc

have all depreclated from their central rates, while the lira.

krone and punt have sppreciated.

Mar. 30		•	'	Hpte Rates
Argentina Peso	a579-2899	1153-1157	Austria	2712-2812
Australia Dollar		0.8945-0.8970	Belgium	50 1-S14
Brazil Cruzeire	47.22.48.22	22.85 95.55	Oanmark	10.58-10.68
Finland Markka	8.31-8.325	3.9770-5.9790	France	8.73-8.83
Greek Orachma	74.718-76.532	36.16.37.05	Germany	5.78-3.88
Hong Kpng Dollar		4.9870-4.9920	Italy	1,895-1,758
Iran Rial	146.80-155.20	72.75	Japan	425-435
Kuwait Dinar KO		0.2758-0.2759	Hetherlands	4.07.4.17
Luxembourg Frc.		: a9.58-a9.60	Norway	10.41-10.51
Malaysia Dollar	4.55-4.57	2.2050 2.2125	Portugal	94-100
How Zealand Oir.	1.9580-1.9540	° 0.9480 0.9510	Span	139.5-144,5
Seudi Arab. Riyal	6.87-6.97	-5.3800-5.5610	Switzerlend	3.40-3.50
Singapore Dollar.	4.51-4.55	2.1815.2.1825	United States	3.0500-2.0600
Sth. African Rand	1.74-1.75	0.8420-0.8470	Yugoslavia	59.5.43

### THE POUND SPOT AND FORWARD

March 30	Day'e apread	Close	Оле топть	p.a.	Three months	p.a.
JKt	2.0585-2.0729	2,0665-2,0665	0.40-0.30c pm	2.03	0.75-0.65 pm	1.35
relandt	2.0545-2.0585	2.0545-2.0555	0.40-0.30c pm	2.04	0.75-0.65 pm	1.36
Cenadat	86,20-86,25	88,20-86,23	0.07-0.05c pm		0.14-0.11 pm	0.58
Verbing.	2.0130-2.0155	2.0130-2.0150	0.64-0.54c pm		1.90-1.80 pm	3.67
Belgium	29.52-29.56	29.54-29.56	a1_711c pm	3.25	23-21 pm	2.98
Denmark	5.1925-5.1970	5.1925-5.1940	0.60ors pm-par	0.58	0.25-0.75dis ·	-0.38
//. Ge	1.8670-1.8690	1.8680-1.8690	0.90-0.80pf pm		2.62-2.52 pm	5.50
Portugal	48.15-48.35	48.18-48.28				10.99
De II	68.00-68.40	68.00-68.05	1-11c dis	-1.06	15-25 die -	-1.1a
iely	839.50-840.00	839.80-840.00	0.60-0.90 lire die	-1.07	1.60-2.10dis .	-0.88
forway.	5.1050-5.1080	5.1060-5.1070	0.80-0.30om pm	1.29	2.15-1.65 pm	1.49
rance	4.2960-4.3000	4.2990-4.3000	1.10-1.00c pm		3.05-2.90 pm	2.77
weden	4,3695-4,3720	4.3695-4.3705	0.70-0.50om pm		2.10-1.90 pm	1.83
mpan	209.60-209.90	209.60-209.80	0.80-0.70y pm		2.20-2.10 pm	4.10
-ustria	13.69%-13.77	13.701-13.71	S12-8gro pm		191-171 <sub>2</sub> pm	5.40
witz.	1.6910-1.6935	1.6925-1.6935	1.45-1.35c pm		4.25-4.16 pm	9.92

THE DOLLAR SPOT AND FORWARD

### and discounts apply to the U.S. dollar and not to the individual currency

March 30	Day'a opread	Close	One month	p.a.	Three	p.
U.S.	2.0585-2.0729	2.0855-2.0665	0.40-0.30c pm	2.03	0.75-0.65 pm	1.3
Canada	2.3900-2.4050	2.3990-2.3990	0.30-0.20c pm	1.25	0.55-0.45 pm	0.8
Hothind.	4.14-4.18	4.16-4.17	21-11:c pm	5.40	5%-4% pm	4.9
Selg: um	60.80-61.30	21.10-61.20	30-20c pm	4.90	70-50 pm	4.2
Oenmark	10.69 - 10.783	10.731-10.7312	31-1 vore pm	2.52	31-11- pm	0.5
W. Ger.	3.84-3.88	3.851-3.861	7-1-pf pm	7.38	7-6 pm	6.7
Portugal	99.10-100.0 -	99.55-99.85	50-110c dus		120-250 dis	-7.4
Spain	140.35-142.10	140.40-140.50	30c pm-15c die	0.64	60 pm-50 dis	pe
Italy	1,728-1,740	1,734-1,735-2	2 line pm-par	0.89	3-1 pm	0.4
Norway	10.51-10.58	10.541-10.551	34-14ore pm	0.31	814-614 pm	0.2
Fmnce	8.84-8.91	8.871-8.881	34-24c pm	4.39	54-8's pm	3.9
Sweden	9.00-9.051	9.02 - 9.03	314-114010 pm		73-54 pm	2.9
Japan	428-435	433-434	2.65-2.15y pm	5.54	S.35-5.85	5.6
PHILENA	28.17-23.40	29.30-23.35	22-12gra pm	7.20	53-43 pm	5.7
SWITZ.	3.47-3.52	3.494-3.504	31-21-c pm	11.19		10.9

### **EXCHANGE CROSS RATES**

Mar. 30	Pound9terling	u.s. poller	Doutschem'k	Japan'sa Yen	FranchFranc	Swiss Franc	Outch Guild'r	Italian Lira	Canada Dolla	r Belgian Fran
Pound Sterling	0.484	2.066	5.865	453.5	8.880	5.503	4.165	1735.	2.399	61.15
U.S. Oolier		1.	1.870	209.8	4.298	1.695	2.016	259.8	1.151	29.60
Dautschemark	0.259	0.535	1.	119.2	2.299	0.907	1.078	449.3	0.621	15.83
Japanese Yan 1.000	9.507	4.766	8.910	1000.	20.48	2.080	9.608	4002.	5.533	141.1
French Franc 10	1.126	2.327	4.550 .	488.2	10.	3.944	4.690	: 254.	a.701	68.86
Swiss Franc	0.935	0.590	1.103	123.8	2.535	1.	1.189	495.4	0.685	17.46
Outoh Guilder	0.240	0.496	0.927	104.1	2.132	0.841	1.	415.6	0.576	. 14.68
Italian Lira 1,000	0.576	1.191	2.926	24a.2	5 118	2.019	2.401	1000.	1.382	35.24
Canadian Dollar	0.417	0.861	.510	180.7	3.702	1,460	1.737	723.4	3.933	25.50
Belgian Franc 189	1.655	5.579	6.315	709 9	14.52	5,728	6.811	2837.		100.

## LONDON MONEY BATES

	Sterling Certificate of deposit		Local Authority deposits	Local Auth. negotiable bonds	Finance House Osposite	Company	Discount market daposit	Treasury :	Bank Bank Bills &	Fina Trade Bills 4
vernight,		5-135				_	12-15			
days notice.		<u> </u>	151g		_			. <b></b> .		_
days or	_						_			_
days notice		19 a 13 a -		: - '	13	· 1514	124	! – .	~	_
na month			127a-1254	1258-1254	15	1314	124	11 -1132	125,	1314
eddinom ow		19 . 12 .	_	124-121-	125,	I - :	12	115	1212	12!1
res months,			1214-195	1158-19	195g	12ag	1912	1113	12	1212
x months			1134-1178	1058-1118	12	·		! !	1074	12
ne months	11世10倍	111g-1114 }		1076-114	117n	'		- !		
ne year	10 - 1034	11.111	115a	1078-114	1134	í — I	-	. – 1	_ 1	_
wo years		<b>→</b> *;	12-191a		<b>-</b>	- !	_	i !	_ 1	

mortgage rates nominally three years 12-12's per cent; four years 12's per cent; five years 12's per cent. 9 8a
bill rates in lable are buying rates for prime paper. Buying rates for four-month bank bills 112 per cent: loui-mon
Trage bills 12° per cent.
Approximate selling rates for one-month Treasury bills 11% per cent, two-month 11% per cent, three month
.112 per cent. Approximate selling rate to: one-month bank bills 12% per cent; two-month 12% per cent; and this
MONTH 11's DOL CORL ONG-MONTH trade bills 13's NOT LENT: TWO-Worth 177s DRI CORL and thing-month 171, may near
Finance Houses Bese Rates (published by the Finance Houses Association) 13 por cent from April 1, 197
Cleaning Bank Deposit Rates for small sums at seven days notice 10.5 per cent. Cleaning Sank Rates for lending 13.5
The state of the s

# Treasury Bills: Average lender rates of discount 11,4337 per cent

### unit rates tended to widco. with the three strongest currencies inereasing the lead over their

Mar. 30	r	s		Hpte Rates
Argentina Peso	a579-2899	1152-1157	Austria	271-281-
Australia Dollar	1.8475-1.0525	0.8945-0.8970	Belgium	50 1-S14
Brazil Cruzeire	47.22.48.22	22.85 95.55	Oanmark	10.58-10.68
Finland Markka	8.31-8.325	3.9770-5.9790	France	8.73-8.83
Greek Orachma.	74.718-76.532	36.16.37.05	Germany	5.78-3.88
Hong Kpng Dollar	10.30-10.33	4.9870-4.9920	Itzly	1,595-1,755
Iran Rial	146.80-155.20	72.75	Japan	425-435
Kuwait Dinar KO	0.563-0.572		Hetherlands	4.07.4.17
Luxembourg Frc.	61.15		Norway	10.41-10.51
Malaysia Dollar	4.55-4.57	2.2050.2.2135	Portugal	94-100
Hew Zealand Oir.	1.9580-1.9540	0 9490 0 9510	Брал	139.5-144.5
Saudi Arab, Riyal		5 3500-5 5610	Switzerlend	3.40-3.50
Singapore Dollar.	4.51-4.55	2.1815.7 1826	United States	3.0500-2.060
Sth. African Rand		0.8420-0.8470	Yugoslavia	59.5.43

5	March 30	Day'a opread	Close	One month	p.a.	Three	p.
36	U.S.	2.0585-2.0729	2.0855-Z.0665	0.40-0.30c pm	2.03	0.75-0.65 pm	
18 77	Canada	2.3900-2.4050	2.3990-2.3990	0.30-0.20c pm	1.25	0.55-0.45 pm	0.8
77	Hothind.	4.14-4.18	4.16-4.17	21-11:c pm	5.40	5%-4% pm	4.9
18	Selgi um	60.80-61.30	21.10-61.20	30-20c pm	4.90	70-60 pm	4.2
18	<b>Oanmark</b>	10.69 - 10.78 2		31-1 vore pm	2.52	31-11- pm	0.5
Ö	W. Ger.	3.84-3.83	3.851-3.861	7's-1'spf pm	7.38	7-6 pm	6.7
19	Portugal	99.10-100.0 -	99.55-99.85	50-110c dis		120-250 dis	-7.4
18	Spain	140.35-142.10	140.40-140.50	30c pm-15c dia	0.64	60 pm-50 dis	pe
13	Italy	1,728-1,740	1,734 -1,735	2 lire pm-par	0.59	3-1 pm	0.4
19	Norway	10.51-10.58	10.541-10.551		0.31	814-614 DED	0.2
7	Fmnce	8.84-8.91	8.871-8.881	34-24c pm	4.39	54-84 pm	3.9
13	5weden	9.00-9.051,	9.02 - 9.03	34-14 ore por		73-54 pm	2.9
ĬŌ	Japan	428-435	433-434	2.65-2.187 pm		S.35-5,85	5.6
O	Ausins	28.17-23.40	29.30-23.35	22-12gra pm	7.20	53-43 pm	5.7
12	Switz.	3.47-3.52	3.494-3.504	31-21c pm	11.19	101 <sub>3</sub> -91 <sub>5</sub> pm	10.9
3	Sel-	gium jare is le	sidneence to	•		6Z.35-6Z.45	

# industrial, two residential.

2837.	3.933 	25.50 100.
MOREY	RATES	
NEW YOR Plant Rain Fed Funda Treasury 8il Treasury 8il		. 11 5-1 t.75 . 10 . 9.41 . 9.38

	AEVIJENA!	
	O stewnr Rate	4
	Overnight Rate	2.20
	Three months	2.20
	Three months	5.65
	FRANCE	
_		
Y	Oversight Rate	9.5
Ĺ	Cyonight Rate	6.625
5	One month	5.812
•	Three means	7 062
	S-a months	7 002
-	0 2 11111111111111111111111111111111111	7.312

JAPAN

# **Building** increased earnings

**Higher Profits** 1978 Group profits increased by 24% to £274 million.

Dividends Rise

Final dividend of 2.84 pence per share recommended, making a total of 4.21 pence for 1978, up 13.2%. Dividend cover 1.35 times.

Bonus Issue .

Bonus share issue of 1 for 10 proposed. Dividend for 1979 expected to be maintained on increased capital.

Properties Revalued Revaluation of most of our Central District properties

shows surplus of £271.8 million.

Developments

Gammon House purchased.

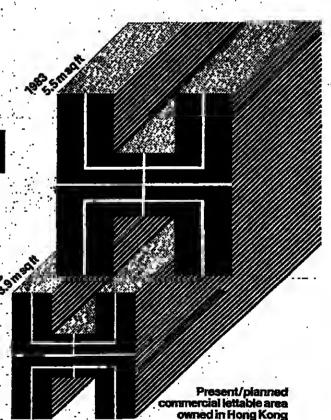
Pand O building sold at substantial profit, to be reflected in 1979 accounts. Three new joint ventures in New Territories: one

Acquired outstanding shareholding in City Hotels Ltd., which became wholly owned. Group's Hong Kong commercial and residential development projects almost fully pre-let. All

existing properties are fully let. Financial Resources Over HK\$600 million (£58.8 million) raised through issue of Unsecured Loan Stock 1984/93 with

Gammon House mainly financed by loans of £68.6

No present need for further borrowing. Borrowingration remains healthy.



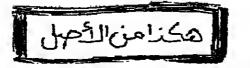
·Building Future Profits Earnings increase expected from development programme with 1.6 million sq. ft. commercial lettable space to be added by 1983. Main impact expected 1980 onwards.

D. K. Newbigging, Chairman Hong Kong, 29th March, 1979

	1978	1977
	£	f
Group profit		٠
aftertax	27,400,000	<b>22,100,000</b>
Dividends	20,200,000	17,900,000
Shareholders'		
	548,300,000	290,300,000
Earnings per share	5.69 pance	*4.59 pence
Dividends per share	4.21 pence	3.72 pence
Net assets per share	**1.14	0.60

ionaset31/12/78 The Hong Kong Land Company Ltd. Alexandra House, Hong Kong.





Olympia

Olympia

Helsinki

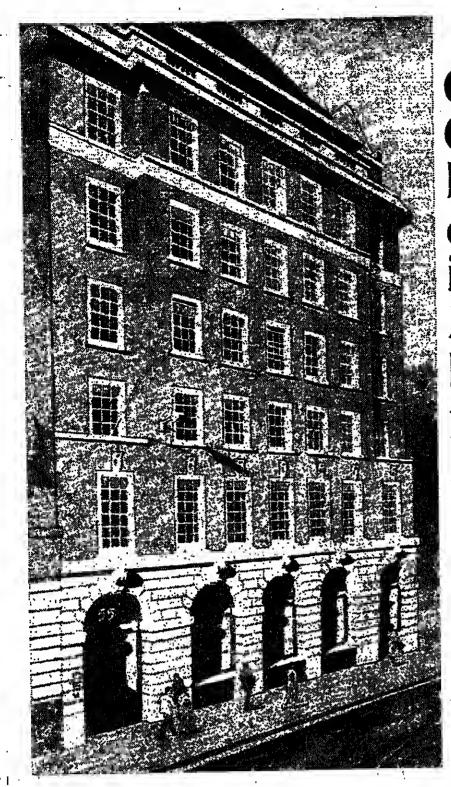
Kelvin Hall; Glasgow

Exbn. Centre, Birmingham

Exbn. Centre, Harrogate Bingley Hall

Bloomsbury Centre Htl. WCI Alexandra Palace

Assembly Rooms, Edinburgh Grosvenor House, W1



Protected Eagles No.1

Extinct in the United Kingdom by

Fourth largest eagle in the world,

Main habitats Scandinavia and Asia.

1916. Re-introduced in 1977.

with a wing span of 7-8 feet.

Like all eagles it is a

protected bird.

White Tailed Sea Eagle

# On April 2nd Canadian Imperial Bank of Commerce is moving to 55 Bishopsgate London E.C.2.

The move of our City Branch from 2 Lombard St. and the European Operations Office from 42 Moorgate to new premises in Bishopsgate is yet another indication of the continuing growth of Canadian Imperial Bank of Commerce as a major force in world banking and finance.



CANADIAN IMPERIAL BANK OF COMMERCE

55 Bishopsgate, London EC2N 3NN, Telephone 01-626 9858. x 888229. Cable CANIMP London E.C. 2.

# The week in **Parliament**

Bill. Completion of Remaining Stages of the Arbitration Bill (Lords), the Crown Agents Bill and of the Consents to Prosecutions Bill and proceedings on Pneumoconiosis the Pneumoconiosis Etc.
(Workers' Compensation) Bill.
LORDS: Iodustry Bill (Money)
third reading. Nurses. Midwives
and Health Visitors Bill, third
reading. Banking Bill remain. reading. Bankiog Bill. remaining stages. Estate Agents Bill, remaining stages. Motions to approve the White Fish subsidy (Deep Sea Vessels) (Specified Ports) Scheme, 1979, Air Navigation (Noise Certification) Order 1979. Carriage by Air Acts (Application of Provisions) (Second Amendment) Order 1979. Credit Unions Bill second reading.

Women and the Penal System

TOMORROW COMMONS: Proceedings on the Finance Bill and on the Consolidated Fund (Appropriation)

LORDS: Motion to approve and Con-(Immunities Privileges) Order 1979. solidated Fund (Appropriation)
Bill, Finance Bill, Weights and
Measures Bill and Leasehold Reform Bill, all stages, Crown Agents Bill Consents to Prosecutions Bill and the Pneumoconiosis Etc. (Workers' Compensation) Bill, remaining

Royal Assent will be given to

TODAY
COMMONS: Proceedings on the
Representation of the People

SELECT COMMITTEE: Expenditure, Arts and Home Office Sub - Committee. Subject:

solidated Fund (Appropriation)
Bill Completion of remaining
stages of the Weights and
Measures Bill, the Leasehold
Reform Bill and Carriage by Air
and Road Bill (Lords). WEDNESDAY COMMONS: Banking Bill, coo-sideration of Lords amend-

Nurses, Midwives and Visitors Bill, Lords amendments. Estate Agents Bill Lords amendments. Proceedings on the Ancient Monuments Bill (Lords) and on three consolidation measures, the Exchange Equalisation Account Bill (Lords), the International Monetary Fund Bill (Lords) and the Prosecution of Offences Bill

all outstanding Acts and Parliament will then be proregued prior to dissolution on Saturday, April 7.

# BUSINESSMAN'S DIARY

UK TRADE FAIRS AND EXHIBITIONS Title
London Fashion Exhibition (01-385 1200)
(until April 5)
The Scottish Hotel, Catering and Licensed Trade
Exhibition (031 229 6412) (until April 6)
International Engineering Important and Quality

International Engineering Inspection and Quality Control Exhibition (01-300 3200) (until April 6)
Leatherwear International (01-385 1200)
Computermarket '79 (01-935 4996)
OCCA Technical Exhibition (01-908 1086)
Tipping Vehicle Exhibition (061-834 7648)
Birmingham Motor Show (0602 51202)
Ideal Homes Exhibition (031 225 9657)
National Food Services (01-886 7181) (until April 6) National Food Services (01-686 7181)

# TRADE FAIRS AND

Travel and Holiday Fair 79 (01-486 1951) (until April 8)
Europain 79 (01439 3964) (until April 9)
Toys and Games Trade Show—BELJOUETS
(until April 8) International Coffee Exhibition MODEXPO—International Ladies' Fashion Fair International Trade Fair International Book Fair Apr. 5—8 ...... Apr. 8—10 ...... Apr. 14—23 ..... Apr. 19—25 ..... Apr. 20—29 .....

Brussels Zurich Jerusalem Amsterdam Braga

### International Household Fair AGRO 79-Northern Agricultural Fair CONFERENCES

BUSINESS AND MANAGEMENT Management Centre Enrope: Management Course (until Apr. 6)

TPM: Industrial Relations Law: The impact of current legislation (01-387 2844) (until June 7)

BTSC: Senior Management Course (04862 5444) current legislature current legislature current legislature current legislature current legislature (04862 5444)
(until April 28)

AMR International: Interviewing Skills and Techniques for Executives (01-262 2732)

ESC: Important Developments in the Protection of Industrial Designs (057 282 2711)

ASM: Managing and Controlling R and D projects (01-385 1992)

MSS Computer and Business Consultancy: Effective Marketing and Selling (0903 34755)

Frank Jefkins: Export PR/Planned Press Relations (01-657 2911)

Executant Conferences: Justifying and Selecting Automatic Test Equipment (0494 33171)

Energy Utilisation and Conservation Conference (01-637 2400)

NTIS: Information Services (0420 84300)

Kwaliteitsdienst-KDI: Effective Material Utilisation BACIE: Traioing Design (01-636 5351)

The Spring Research and Manufacturers' Association: Health and Safety in the Spring Industry (0742 760771) Roysi Lancaster Hotel, W2 American Embassy Hilton Hotel, Rotterdam (0742 760771)

Graham and Trotman: Saudi Arahia and Egypt:
Current and Future Business Opportunities
(01-493 6351)

BHRA: Institution of Chemical Engineers: Mixing (0234 750423) ISBA: World Industrial Advertising Congress (01-222 6362) International Insurance Conference (01-222 6362) Assoc. of Offsbore Diving Contractors: Underwater Engineering Symposium (01-549 5831) Oyez-1BC: Damages for Personal Injury and Death (01-242 2481) The 48 Group: Trends in British Trade with China

(0772 51831)
AGB: Trade Union Recognition—the options
(01-353 3651) (01-353 3651)
The Institution of Mechanical Engineers: Power from Coal (01-222 7899)
LCCI: Conference on Libya (01-248 4444)
The Henley Centre for Forecasting: The Budget (01-236 3011)
BAMA: Achieving analysis and the conference of the conference BAMA: Achieving production efficiency (0703

CBA/John Ridgway: Training Course (01-720 7711) IMPI/AMEDA: Microwave—a Cooking Revolution (0582 411001) AGB: Executive Secretary (01-353 3651)
Eurotech Management Development Service: Be a
More Effective and Persuasive Communicator

More Effective and Persuasive Communicator (0252 313066)

AGB: Essentials of Employment Law (01-353 3651)

FT Conference: South East Asian Banking and Finance (01-236 4382)

MSS Computer and Business Consultancy: Manufacturing/Production Control Concepts (Worthing 34755) Apr. 19-20

Malaysian Investment Centre: Assisting UK Businessmen in the Expansion of Trade and Invest-ment Opportunities in Malaysia (01-493 0616) IPM: Current and Future Developments in Pay Policy and Industrial Relations Practice (0865 735422)

Upper Woburn Place, WCI Royal Garden Hotel, W Hilton Hotel, W1 RAC Club, SW1 Worthing Connaught Rooms, WC2 Hotel Russell, WC2

Europa Lodge Htl., W. Brom.

gent's Park, W1

Cafe Royal, W1 University of York Amsterdam Plaza Hotel, Frankfurt University of Aberdeen Royal Lancaster Hotel, W2 Guild Hall, Preston London Press Centre Birdcage Walk, SW1 Cannon Street, EC4 Carlton Tower Hotel, SW1 Kensington Close Hotel, W8 London, WS Charing Cross Hotel, WC2

Cafe Royal, W1 Cafe Royal, W1

Worthing

Piccadilly Hotel, Manchester

Kennington, Oxford

# "Notwithstanding reduced UK vehicle production, the Group's technical strength and expertise will still further increase our worldwide sales."

Sir Bernard Scott, Chairman

Turnover for the six months was £510m, an increase of £48m. The Lucas share of Associated Companies' (all overseas) turnover was a further £61m giving a total turnover of £571m which is £64m higher than the previous year Sales in Europe increased by 21% and those in the US by 43%. Direct exports from the UK were up by 24% to a record level of £86m.

Profits before tax for the six months at £24m were disappointing and this was due to the poor performance of the UK market. During the whole of the first half of the financial year there has been a series of disruptions to production and sales caused by the wide-ranging problems both within the industry and

elsewhere. Thus the UK production of vehicles showed a decline of no less than 18% on the previous year. An additional

factor that reduced profit was our considerable spending on new projects not yet on stream but which will make an important contribution in the future. Outside the UK our companies in Europe and other overseas areas performed well and increased their profits by 28%.

PROSPECTS

The outcome will depend materially on the industrial climate prevailing in the UK for the remainder of the year. Steady and sustained production is essential to restore the profitability of our domestic business to a satisfactory level. However, notwithstanding reduced UK vehicle production the Group's technical strength and expertise will still further increase our worldwide sales. Our prospects are good and market penetration continues to increase.

### 1979 Interim Results at a glance:

:	Half-year to 31.1.79 £ million	Haif-year to 31.1.78 £ million	Year to 31.7.78 £ million
Sales to outside customers	510.14	462.39	971.17
Surplus on trading	26.87	30.34	77.91
Profit before taxation	24.09	27.61	73.05
Earnings per ordinary share	18.89р	22.99p	59.89p
Dividend per ordinary share	2.57p	2.33p	9.18p



With 160 U.K. branches you can rely on our countrywide insurance service for your protection. Millions do. Ask your broker or call in at your nearest branch.



Hambros, Skand. Enskilda 7.75 Eur. Banking Co.

Crédit Lyonnais

Salomon Bros. Société Générale

WestLB WastLB

Deutsche Ban

Crédit Suiss

Bank Julius Baer Crédit Suisse

Banque de l'Union

Morgan Stanley & others BNP, Caisso des Depots

Européenne

Krediethank NV

700

Tifloating sinte not Exchange Commission

BOND ISSUES

CURRENT INTERNATIONAL

1989

· 1987

INTERNATIONAL BONDS

BY FRANCIS GHILES

# The Canadian dollar comeback

ANOTHER startling week for such a "quasi-tap" issue was appears to outweigh the more calendar for the four weeks per cent. The big three Swiss the prices of Sterling bonds and arranged was in September bearish ones, such as the U.S. starting March 26, which was banks decided to freeze the of dollar bonds convertible into 1977, by Orion Bank, one of the British equities, also saw the re-emergence of the primary market in fixed interest Euro Kontrollbank dollar bonds and after a long absence—of new issues in Canadian dollars. Meanwhile conditions in the hard currency market which ruled the roost last year, continued to

being closed for 18 months. All week pointed to a warm recepwiton for the two Canadian dollar issues: issues for Canada's Export Development Corporation and Hudson's Bay Co. which were announced on Tuesday. The Hudson's Bay issue was increased from an initial C\$40m to C\$50m later in the week. A third issue, for Province of Quebec, was announced on Friday evening.

The total size of the EDC bond is C\$100m of which C\$50m has been issued in the tradibetween now and the end of the years in other types of paper vear at the discretion of the

with changes in market conditiveld premium offered by money tions being taken into account market instruments may be by altering the issue price. diverting some funds tack into The only other occasion when bonds. This consideration The only other occasion when bonds.

joint lead managers in the EDC issue, for Oesterreichishe

The reoponing of this sector was made possible by the improvement in the Canadian currency since the beginning of March, It then stood at C\$0.83 aginst the U.S. dollar but had moved up to C\$0.86 by last The Canadian dollar sector of Friday. This improvement is the market was re-opened after reinforced for the investor by the higher yield ha can get on indications at the end of last the new Canadian dollar issues than on recent U.S. dollar

Electricite de France re-opened the dollar sector of the straight Eurobond market with a \$75m offering. A \$40m straight issue for Comalco was then announced later in the week. The reception for EDF was fair, not least on account of the rarity of the name, but some retail investors objected to the fact the bonds could be redeemed after threa years at a tional way while a further price of 100]. Many felt higher remains for issue yields were available for three

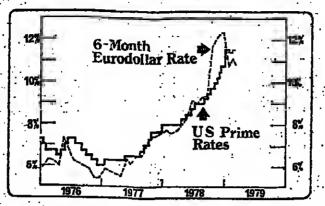
Turnover of seasoned dollar bonds was said by dealers to be The coupon and maturity will average. Against the background be the same regardless of when of a firm dollar and easing the individual bonds are issued, interest, cates the declining

nereases in the price of oil.

The announcement of oil

rate of inflation and further set at a maximum of DM 770m. was too high. The deteriorating state of this

price increases and the threat market was confirmed by the of further rises in Inflation and terms for RENFE and particu-Interest rates again troubled the larly by those for the Fujitsu Yen, D-Mark and Swiss franc convertible which carries a sectors. Prices of D-Mark bonds coupon of 5 per cent, the



Hungary is to horrow \$200m by way of a syndicated loan paying ; to above U.S. prime rate rather than LIBOR. The chart above why this could be more attractive to U.S. banks. The loan is heing managed by Manufacturers Hanover Group

fell by an average of i point highest for a DM denominated across the board in very thin Japanese convertible for a long trading after the announcement time. that both the discount and s full point in Germany.

Some German bankers also felt that the new D-Mark issua of the recently prevailing 31 scribed.

In the Swiss franc sector, too. Lombard rates would go up by the Japanese are having to pay Watch paid 3; per cent instead

issue of subsequent Japanese convertibles. The tad state of the Swiss

bond market forced Banque Keyser Ullmann en Suisse to announce a coupon of 5 per cent on the SwFr 40m 10-year public issue it is arranging for Lonrho. The level of the coupon was at least 2 of & print above what was expected a week before.

The deterioration of the Yen sector, was reflected in the decision by the Japanese autheritiea to curtail Yen bond issues planned for the next two months. This forced both Denmark and Austria to scale down their plans for Yen bond issues next month.

In the sterling sector gains of np to 31 points were registered on the week. The recent issue for FFI closed et 103 on Friday, The excitement on the British stock market coupled with the through clearly in the prices of K dollar convertibles. The Thorn issue closed at the end of the week at 122, up from 103 at the beginning of March. On Thursday morning this security put on 10 points in as many

the FFr 125m bond for Solvay was priced at par and a balf. It was four times over-sub-

BY MARY CAMPBELL U.S. BONDS

U.S. DOLLARS TiTexas Int. Airlines

EDF (g'ted France)

Credit National (g'teed France)

SWISS FRANCS

**1Pfandbriefstelle** 

SRhythm Watch

Aoki Construction

FRENCH FRANCS

LUXEMBOURG FRANCS

CANADIAN DOLLARS

UNITS OF ACCOUNT

tSOFTE (g'teed STET) .40

Hudson's Bay Co.

throv. of Quebec

YEN.

‡Denmark

125

Best Denki

City of Oslo

\*••Okumura

RENFE (g'teed Spain)

S. African Oil Fund

Landes-Hypothbk.

D-MARKS

**E**Euiitsu

BY STEWART FLEMING

# Facing up to indices

YORK bond markers dated government issues. will, according to official fore-some difficult tests. Interest takes In the short casts, be unable to meet its next few, days as term meney markets also obligations. try to assess the declined slightly, although the These include payment of, as of the confronts the Federal Reserve Board's some 57bn of social security. are facing some difficult tests investors try to assess tha implications of the confrontation in the trucking industry, the uncertainties posed by Congress's fallure so far to raise the Federal debt limit, and the publication later this week of the Producer Price Index for March which is widely expected to show that inflationary pressures continue to run' at a

double digit annual rate. Thorughout most of last week the prices of long-term bonds were firm and in splte of a decline on Friday prices in butb the corporate and Treasury sectors ended the week a shade higher with gains of around one

quarter of a point in longer

target of ahout 10 per cent for Federal funds appeared unchanged.

continued failure of Congress to approve an increase in the U.S. Government's debt ceiling from \$798bn to \$830bn and the consequent sbortage of stock.

The lack of action in Congress on this Issue threatens to pose a serious problem for the authorities and has already disrupted the financial markets. Unless the House of Representatives acts today to approve an increase, the Administration Friday.

cheques. Last Treasury stopped selling savings bonds and in efforts to increase The performance of the marthe available cash, called on kets was widely ascribed to the banks to pay in any tax receipts they were holding. In order to stay within its debts ceiling, the Treasury has also postponed an estimated \$10bn of securities. On the assumption that Con-

gress approves the increase in the debt ceiling early this week, the markets are likely to be faced with the task of absorbing a flood of new Treasury sales and it was this prospect which sparked the decline in prices on

# INTERNATIONAL LOANS

# An impressive digest from the BIS

THANKS to the Bank for International Settlements (BIS), it position is now at last possible to make. The manual could also be sensible estimates of individual useful to companies involved in country's debts without several years' study of statistical

Statistics Compled by Internat come out into the open.

The new study, which runs to though the first it lists and describes all countries External Indebted solidate the position even of First it lists and describes all international

U.S. DOLLAR

be the main losers so far in On Friday, the BIS published the critical cases of default like document called Manual on Turkey which have already tha critical cases of default like

YEN STRAIGHTS
Asien Oev. Bank 54, 88
Australia 55, 83
Australia 67, 88
Finland 5.6 83
Finland 5.8 88

OTHER STRAIGHTS IN Nordio 1, 8k; 9 84 SOR' Auto Cota 8, 7 93 EUA Komm. Inci. 72, 93 EUA Komm. Inci. 72, 93 EUA Panoma 62, 83 FUA Panoma 62, 83 FUA Panoma 63, 63 FUA Panoma 63, 63 FUA Panoma 64, 63 FUA Panoma 65, 64 FUA PANOMA 65, 65 FUA PANOMA 65, 65 FUA PANOMA 65, 65 FUA PANOMA 67, 65 FUA PANOMA 67

homework on any national debt maturity in December 1976. For while a great deal of data and limitations of the information power published on countries tion. Third, it gives indications useful to companies involved in providing suppliers credits companies which have tended to be the the tended to be the tended to that it has been very difficult

countries. External Indebted solldate the position even of ness." As may be guessed from experts in the field, one combine the fille it is not the sort of mantator on country old to tome which every loan syndica. Iast week that it would fill in tion officer needs to carry round a number of gaps in his underthe world in his pocket.

But from now on no bank. Arguably it is till most intelled readers what information is involved in international lend, portant, contribution to international lend, portant, contribution to international from where what the ing, however small its research, pational credit assessment since department, can have any the BIS started to break down excuse for falling to do its banks cross frontier lending by when published.

of how all this information can he roughly put together to compile an estimate of overall indebtedness. It falls far short of actual

aggregation of the figures for individual countries. But the publication is part of the general thrust to improve the quality of data available on country debt. An actual aggregation of

figures might be the next stage. The BIS notes that "the international organisations cerned are now examining tha extent to which these data suitable for publication, using mation flows.

available for their own purposes but which is not publicly available." But such a development would not happen overnight, even if the necessary agreements for it were to be secured.

The World Bank, the Organisation for Economic Co-operation and Development (OECD) and the International Monetary Fund have all helped to prepare the new publication.

Imposing controls on banks' international lending has bitherto been cousidered virtually impossible. The authorities have therefore concentrated on helping lenders to help themcould be aggregated in a form selves by improving the infor-

**NEW ISSUE** 

# FT INTERNATIONAL BOND SERVICE

a.65 89.1a a.35 8.66 88.99 95.75 (1/2)

BONTRADE INCEX AND YIELD

EURNBINO TURNILVER (nominal value in 5m)

U.S. S bonds	Cedel 464.5	Euroclos 1,168,3
Previous week	612.7	1,440.7
Other bonds		
Lasi week	606.0	403.0
Previous week	368.9	464.4

\* No information availableprevious day's price.

† Only one market maker supplied a price.

STRAIGHT BONDS: The yield is the yield to redemption of the mid-price; the amount issued is in millions of currency units ex-cept for Yen bonds where it is in billions. Change on week = Change over price a week earlier. FLOATING RATE NOTES:
Denominated in dollars unless otherwise indicated. M=Minimum coupon. C.dte=Date next coupon becomes effective. Spread = Margin above six-month offered rate for U.S. dollars. C.cpo = The current coupon. C.yld=The

current coupon. C.yld=The current yield. CONVERTIBLE BONDS: De-nominated in dollars unless otherwise indicated. Chg. day = Change on day. Cnv. date = First

change on day. Cnv. date = First date for conversion into shares. Cnv. price = Nominal amount of bond per share expressed in curreocy of share at cooversion rate fixed at issue. Prem = Percentage premium of the current effective price of acquiring shares via the bond over the most recent price of the shares. recent price of the sheres.

The list shows the 200 latest international bonds for which ao adequate secondary market exists. The prices over the past week were supplied by: Bondtrade; Kredietbank NV: Credit Commercial de France; Credit Lyonnais; E. F. Hutton Services SARL; Commerzbank AG; Deutsche Bank AG; Westdeutsche Landesbank Girozentrale; Banque Internationale Luxembourg; Krediet Bank Luxembourg: Algemene Bank Nederland NV; Pierson, Heldring and Pierson; Credit Suisse/Swise Credit Bank; Union Bank of Switzerland; Akroyd and Smithers; Bankers Trust Inter-national; Banque Française de Credit International; Citicorp International Bank; Daiwa Europe NV: Deltee Trading Company; Dillon Read Overseas Corporation; EBC; First Chicago: Goldman Sachs International Corporation; Hambres Bank; IBJ International; Kidder Peabody International: Merrill Lynch: Stanley International: Nesbitt Thomson; Salomon Brothers International; Samnel Montagu and Co.; Scandinavian Bank; Strauss Turnbull and Co. Sumitomo Finaoce International S. G. Warburg and Co.; Wood

Closing prices on March 30

These securities having been sold, this announcement appears as a matter of record only,

2nd April, 1979

UNITED OVERSEAS BANK LIMITED

U.S. \$25,000,000

(Incorporated in the Republic of Singapore)



Floating Rate Notes Due 1989

Credit Suisse First Boston Limited

S. G. Warburg & Co. Ltd. Daiwa Europe N.V.

**European Banking Company Limited** Kidder, Peabody International Limited United Chase Merchant Bankers Limited

Bayerische Landesbank Girozentrale

Blyth Eastman Dillon & Co.

Citicorp International Bank

Crédit Agricole (C.N.C.A.)

Banque Nationale de Paris Chase Manhattan Limited The Development Bank of Singapore Limited Jardine Fleming & Company Limited Salomon Brothers International Westdeutsche Landesbank Girozentrale

Alsemene Bank Nederland N.V. AMAS S.A. American Express Bank The Bank of East Asia, Banca Commerciale Italiana Bank Julius Beer International The Bank of Tokyo (Holland) N.V. Bankers Trust International Bank Mees & Hope NV Banque Française du Commerce Extérieur Banque de Paris et des Pays-Bas Banque Worms Banque de l'Union Européenne

Banque Générale do Luxembourg S.A. Banque de Paris et des Pays-Bas (Suisse) S.A.

Baring Brothers & Co., Beverische Vereinsbank Coisse des Dépôts et Consignations Clariden Bank

Chemical Bank International Continental Illicois Crédit Lyonnais

Credito Italiano Dai-Ichi Kangyo Bank Nederland N.V. Creditanstalt-Bankvertin DG Bank Dresdner Bank Effectenbank-Warburg Den norske Creditbank Robert Fleming & Co. Fuji International Finance First Chicago Asia Merchant Bank Goldman Sachs International Corp.

Girozentrale und Bank der Österreichischen Sparkassen Hill Samuel & Co. Hessische Landesbank-Girozentrale-Hambros Benk Istituto Bancario San Paolo di Torino - Kansallis-Osake-Pankki Kleinwort, Benson Lazard Brothers & Co., Lazard Frères et Cie Kuhn Loeb Lehman Brothers Asia

Crédit Commercial de France

Merrill Lynch International & Co. McLend, Young, Weir International Manufacturers Hanover Samuel Montago & Co. Morgan Grenfell & Co. Morgan Guaranty and Partners

Nederlandsche Middenstandsbank N.V. The Nikko Securities Co., (Europe) Ltd. Nomura Europe N.V. Nordic Bank Limited. Oversea-Chinese Banking Corporation Orion Pacific Postipankki Privatbooken N. M. Rothschild & Sons Rothschild Bank AG

Schröder, Münchmeyer, Hengst & Co. J. Henry Schroder Wagg & Co. Schroders & Chartered Singapore Nomura Merchant Banking Skandinaviska Enskilda Banken Société Générale Société Générale Alsacienne de Banque

Société Bancaire Barclays (Suisse) S.A. Société Privée de Gestion Financière et Foncière Son Hung Kai International Svenska Handelsbanken

The Taiyo Kobe Bank (Luxembourg) S.A. J. Vontobel & Co. Warburg Paribas Becker Strauss, Turnbull & Co.

Swiss Bank Corporation (Overseas) Union Bank of Finland Ltd. Trade Development Bank, Yamaichi International (Nederland) N.V. Wood Gandy

Banque Internationale à Luxembourg S.A. Banque Populaire Suisse S.A. Luxembourg Bayerische Hypotheken- und Wechsel-Bank Berliner Handels- und Frankfurter Bank Christiania Bank og Kreditkasse County Bank Credit Suisse First Boston (Asia) DBS-Daiwa Securities International Euromobiliare S.p.A. Genossenschaftliche Zentralbank AG Groupement des Banquiers Privés Genevois IBJ International Indosucz Asia Kredietbank S.A. Luxembourgeoise Lloyds Baok International Mitsubishi Bank (Europe) S.A. Morgan Stanley International Nippon European Bank S.A. Pierson, Heldring & Pierson N.V. Sanwa Bank (Underwriters) Scandinovian Bank Singapore-Japan Merchant Bank Smith Barney, Harris Upham & Co. Société Générale de Banque S.A. Sumitomo Finance International

Amsterdam-Rotterdam Bank N.V.

Bank Leu loternacional Ltd.

Banque Bruxelles Lambert S.A.

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American Sc. Int. 57,87 Argentina 65,88 Austria 58,88 Austria 59,90 Benco Desarysko 7,86 Benkamerica 9,90 Bg. Ext. Algeria 7,85 Reset J. 87

Canada 35-39
Chase Manhattao 4 23
Council of Europe 44
Bankamerics 37, 93
Benmark 41, 50
E18 42, 83
Euratom 42, 93

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**INSURANCE** 

N.Y.S.E. ALL COMMON

the undertaking involved.

An undertaking

Insurers have now given an

porary employees' wages in whatever declaration insurers

require.
During their final school year

BY OUR INSURANCE CORRESPONDENT

WE ARE now in the eighth The Manpower Services Comyear of compulsory employers' mission is concerned with two liability insurance and so kinds of scheme for young unsmoothly have the compulsory employed.

lews been applied by the In the first, the Youth Opporinsurance market that the only tunities Programme, is to provisible evidence of change has vide some youngsters with a been the displays on office and practical introduction to workfactory noticeboards of current iog life. The youngster does not statutory certificates of legally become an employee of

It is trite to say that the employer must have cover to porary Employment Programme ensure employees receive com- which provides temporary jobs ensure employees receive com-pensation for any injury or ill-in are29 of unemployment, the ness caused in the course of worker becomes a legal their work as the result of the employee. employers' negligence. This provokes the questions: "Who is en employee?" and "which employees have to be protected by law?"

The 1969 Act defines an employee 9s "an individual who has eotered into or works under a undertaking that any young person involved in either scheme wil be treated as an employee, eotered into or works under a contract of service or apprenticeship with an employer whether by wey of manual labour, clerical work or otherlabour, clerical work or otherwise, whether such contract is expressed or implied, oral or in ment does not have to tell insurers in advance, though be exempt certain employees and does have to include the temporal property of the contract is participating in such an arrangement of the contract of the writing." It then goes on to exempt certain employees and certain employers.

### Vital words

The vital words are "under a some pupils undertake a few contract of service or apprenticeship, but almost all insurers whether their chosen employprovide cover in respect of ment is suitable. Usually local people outside the statutory suthorities are responsible for definition: for example, people this arrangement. Insurers are bired to or horrowed by the prepared to treet these pupils policyholder wbile under a contract with some other employer, both employers' and public or perbaps self-employed people doing work normally performed the policy holder concerned in under a contract of service or forms insurers in sdvance and, apprenticeship with the policy in due course, includes in his

The number of people who notional amount of earnings for might he called "quasi-employees" and whose rights to compensation for work scci-dents may be insured for convenience under employers' lia-

bility policies, is increasing. Last Friday e Financial Times report described bow GEC at Manchester is running, in conjunction with the Manpower Services Commission, fortnightly employment induction courses, each for up to a dozen young unemployed people. While much of the time is taken up with classroom exercises, lec-

# General manager for **National Benzole**

Mr. John M. Sperring has been made director and general group. Mr. R. M. Spiro is chairmanager of NATIONAL BEN- man of Greengarden Investments ZOLE COMPANY from today. He succeeds Mr. D. Chadwick who headed the company for six wars until retiring Mr. Sperring former chief executive of EPC. years until retiring. Mr. Sperring former chief executive of EPC.
joined National Benzole, a BP
company, in 1957.

Mr. Noel Blows has been

tor of G. E. WALLIS AND SUNS.
Mr. R. C. Stevens, is divisional
managing director of the western
division based at Newport,
Gwent. Mr. A. H. Baird has been
appointed a director, and Mr.
A. R. Deacon a director of
County Bank, has joined the
Board as a non-executive director In the second, the Special Tem-Board as 9 non-executive director.

Mr. Bernard G. Lewis, chief executive of Kumpulan Guthrie SDN BHD and Mr. John A. Logan, president of Guthrie North America Inc and of Ajax Magnethermic Corporation, have been appointed directors of the GUTHRIE CORPORATION.

Mr. Robert D. Wade bas become group managing director of LEEDS AND DISTRICT DYERS AND FINISHERS.

Mr. Adrian Rapazzini bas joined P. S. REFSON AND CO to establish and manage the bank's emporate finance department. He was previously 2 partner of Sloy, Hayward and Co. specialising in financial investiga-

Mr. A. C. Barker bas been appointed a director of the BANKERS' INVESTMENT TRUST from April 2.

Mr. R. B. Annesley and Mr. C. J. Wakefield have been appointed executive directors of GREENGARDEN INVESTwage return an appropriate notional amount of earnings for each pupil.

## **Public Works Loan Board rates**

Effective from March 24

Years	Quote by EIP†	icans A‡	repaid at maturity§	Non-quota by EIPt	loans A‡	A* repsid at maturity§
Up to 5	115	11}	11}	123	12}	12}
Over 5, np to 10	11%	12	121	123	12}	13 .
Over 10, np to 15	125	121	121	13	13	134
Over 15, np to 25	121	127	127	131	13}	137
Over 25	123	12	127	13}	131	137

tires and visits round the factory. On several days these young people are allocated positive tasks under supervision.

\*Non-quota loans B are 1 per cent higher in each case than non-fuel and native fixed equal half-yearly payments to include principal and interest). \$ With half-yearly payments of interest only.

Mr. P. C. Williams has been appointed an associate director of HARLOW MEYER AND COnforeign exchange brokers, a subtiques as group managing director of G. E. WALLIS AND SONS.

Mr. R. C. Stevens, is divisional.

Mr. A. E. Hepper has been aconinted a director of SHEEP-BRIDGE ENGINEERING. He is chairman of Henry Sykes and is also a director of Cape Industries.

Mr. Richard Harbud has been annointed a director of HAYES MILL with responsibility for controlling internal sales. Mr. Robert Stimpson has become managing director of MATHER-SON-SELIG. Both companies are members of the Harrison Group.

Mr. Peter C. Palmieri has been elected executive vice-president and manager of IRVING TRUST COMPANY's international bank-ing group, New York. He assumes the duties of Mr. Ernst Schneider, who bas returned to Switzerland to become a general manager of Credit Suisse in Zurlch. Mr. David M. Blace, bas been elected a serior vice-president and assumes Mr. Palmieri's duties as division manager.

## TEL AVIV Prices Change April 1 on the

oompon,	1979	We	ek
Sanking, Insurance and Financo			
Bank Leumi le Isreel	332	‡	4.0
108 Bankholding 8ank Häppelim 8r	403 572	<u>+</u>	2.0 5.0
Union 9k. ol larasi 9r.	370	-	2.0
United Mizarhi Sank Hasaneh Insuracce Sr.	218 382	<u>+</u>	4.0 9.0
General Mort. Bank Br.	365	-	4.0
"Telahot" larl. Mt. 8k.	350	+	5.0
Land Oevelopmont			
Almos larsei inv. i£10 lersei Land Oevot, 9r.	940 221	<u>-</u>	5.0 1.0
Property and Bullding	315	<u>+</u>	4.0
Public Utility			
Israel Efective Cpn	287		0.0
Investment Companies			
Sank Leumi Invest	341	- 1	
"Clal" Jarael Invest	457 290	~ 2	6.0
Discount Invest	290	-	1.9
Industrial			
Alliance Tire & Rubber	1,415 232	<b>+</b> 1	
Argemon Textile 8r	302	~ 1	2.0
"Ata Textile "8"	195	~ 1	
Amer, Israeli Pot, Mills	749 390	7 1	
Elite	311	~	4.0
Teva Reg	378	+	3.0

Jource: Bank Lourni tareel SM. Tel

# Indices

NEW YORK -DOW JONES

			:	i .	!			8-79	Since Co	لار راوس:
	Mcr. 30	Mar- 29	Mer. 88	Mar. 27	Mar. 25	23	High	Low	High	Low
		<del></del>	·	1		٠			!	l
e Industr'is	962.18	986.77	856.25	871.36	954.82	859.75	307,74 (3:9)	742,12 (22/2)	(1051,79 (11)1/73)	41,22 (2/1/32)
H'me B'nds	94.59	94.62	94.65	84.88	84.47	84,25	90,89 44/1/78)	84.09 (15:1/79)	-	_
Transport.							261,48	189,31	275.88 (7/2/69)	12.25 (2/7/32)
Utilitles	184.19	104,83	101.77	184.60	104.47	104,70	110.98	97.75	163,82 (20/4/69)	. 10.56
Trading vol	50.140	28,521	  39,920 	i   36,040 	28, 440	स्त्र,820		-	-	_
• Day's high	870.5	8 low	858,11				· <i>.</i> · ·			
			∵ M	er. 93	· M	ar. 15	Ma	. 8 Ye	ar ago (	approx)
ind. di	v. yleid	1%								- 16

. •• ; ==	28   27	1	High L	
:Indust'is 118.59 115.9 {Composite 791.59 102.8	114.05 114.45 102.12 102.41	1 112.77; 115. 3 191.64; 161.	SD 186.98 B	5.52   154.64   5.55 (15)   111.1/73  (30/6/32) 6.90   125.85   4.40 (13)   (11/1/9) (1/6/32
	Mar. 98	Mar. 91	1 Mar. 14	Yoar age (approx).
Ind. div. yleid %	4.09	5,08	S.11	0.46
Ind. P/E Ratio	8,55	8.58	8.44	8,48
and Sand Male	8.09	9 08	9.09	8.1S

Mar. Mar. Mar. Mar. Mar. Mer.

	1978-79	featies Traded 1,897	1,875 1,907
Mar. Mar. Mar. Mar. 30 89 08 27 57.15 57,64 57.35 67.53		Rises Traded 1,897 Rises	757 724 637 786 488 307 60 68
· · · · · · · · · · · · · · · · · · ·	(109)   (41-1	New Lows	8 4
MONTREAL		1976 ar. M9r.	5-79
	20 88 8	8 87 High	Low
industrial Combined	248.02 248.65 24	0.87 250.91 250.91 (ZI,5/79) 8.87 249.78 249.51 (28/3/79)	170.62 (50/1)
TORONTO Composite	1,488. 4 1467.17, 14	55.5 1465.9 1467.17 (39/3/79)	998.2 (50/1)
JOHANNESEURG Gold Industrial	- 266.7 26 - 512.6 31		186.0 (20/4) 194.9 (12/3)
Mar Pro		Mar.   Prev 30   Vigu	
Australia (*) 588.88 595.	51 597.68 411.19 (19/5/79 (1/3)	Spain (4), 108.54 108.2	2 111.86 93.07 (8:3179) (8:3177
Belgium (t) 109.23 108.	04 106,23 90,43 - (50,3/79 (23/6)	Sweden (c) 575.09 574.3	6 408.00 225.7
Denmark (** 85.09 94.	(14/5) (30(10)	Switzerid(f), 518.9 318.8	323.7 261 (14/2) (26/9
Flanco (III tal	) 83.0 47.6 (4(10) (3/2) an 863.8 759.4	50; Standerds and Proporto 300—1,000; the	0013—10; au
Germany (♯) 789.70 796.	(19,10) (17,6)	hased on 1975). † Exc	duding bands
Holland (17)	4 95.1 75.8 (11/9) (21/3)	‡ 400 Industriale. § 400 Iltilialoo, 40 Finance and T Sydnay All Ordinary.	Industrials, 4 20 Transpor 1 98 gian S
Heng Kong 557.68 557.	(4/8) (13/4)	31/12/63. ** Copenhage tt Paris Bourse 1961. #	m SE 1/1/7
	15 St. 25 55.45 (25/9) (10/1)	tiec. 1953. §F Amster	dem Indomi Bank 37/7/8
dologo. (-)	98 452.91 364.04 (31:1779 (4/1)	anca Gommerciale	Italiana 197   168. b Strait
Singapore (b) 571.65 570.	28 414.50 252.0 (8/9) (9/1)	Times 1966, c Closed.	d Madrid S dustrial 1/1/5
Indices and base ovalues 100 except HYSE	lates (all base All Gommon—	f Swise Bank Corporation age.	on. u Unavai

Rises and Falls.

Mar. 50, Mer. 29, Mar. 21

Mar. 29 Mar.28

19.60 20.20 99.70 4.20 19.30 6.00\*\* 9.00 5.00 8.60 5.46 2.50

Hong Kong \$

xd Ex-dividend. † Buyer. ‡ 3e)ler.

Price + or Cruz Ylu Cruz - Oiv. %

Financial Rand U.S.\$0.761

## **EUROPE**

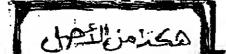
STANDARD AND POORS

Mar. 20   Fis.   -   x   x   Mar. 30   Price   -   x   x   Asalend   131,50   -   0.5	AMSTERDAM	BRUSSELS/LUXEMBOURG	SPAIN *	TOKYO ¶
Abold (Fi.20). 122.5 -0.8 si2 3.0 Abord (Fi.20). 62.4 -0.3 Abox (Co. 1.0	Mar, 20   Price   + er illy. Yid.	Mar. 30 Price + or Frs. Yld.	Aslend 131.50 - 0.50	Aughi Gizes 550 +0 14 2
Amrob k   Fl. 20)	Akzo (Fl.20) 22.4 -0.8 Ala'm 8k (Fl 100) 600.3 -1.7 A25 0.2	8skaert 8" 2,560 +10 110 4.5	8anco Extenor 284 — 8. Granada (1,000) . 134 —	Casio 263 -1 12 1. Casio 816 -4 25 1. Chinon 368 00 2.
Elsey*   NIUIF182   290   -1   br40   2.8   6.8   link am   2.670   435   150   0.8   80.1	Amrob'k  F1,20). 73.8m + 0.2 (25 0.8 8)   Bijenkeri	Cockeril	8co. 1, Cat. (1,000) 165 — 9anco Madrid 212 —	Fuji Photo
Helnokon (FIPS)   92 + 2   14   32   32   32   32   32   32   32   3	Elsey'r-NflUiFi20 280 -1 bs40 2.8 Ennis N.V. 8'rer 139.5 +0.7 A37+ 5.4 EurCom'stiFi10 71.0 +0.1 94.0 4.9	G.8, info 8m, 2,570 +35 150 0.8 Gevzert 1,400 +4 85 0.1 G8L (80x 1) 1,755 90 5.1	8co. Ulquijo (1,000) 289 — 8anoo Vizcaya 285 + 5	C. Itoh 266 +6 12 2 Ito Yekado 1510 +20 50 0
K.L.M.:IP.100   109	Diet-Broc   F10   32.0 0.3   99   5.1     Helnokon   F195    92   +2   14   3.2     Hoog   na   F1.00   30.5   0.7	Intercom	11:agados	Kansai Elect. Pw 1.050 -50 10 0. Komatsu 361 +3 12 2
NedMid8kFl.00	K.L.M. (F).100) 109 -0.7 :5 2.9 int. Muller(F).20 43.8 -1.2 19 8.7 Nat. Ned ins F(10) 111 +1 48 4.3	Pan Holdings2.620	Gal. Precisdos 69 — Hidrola 75.25 — 1.25	Kyoto-Ceramic 3,350 36 0. Matsuspita ind. 071 -0 20 1
Van Ommaren.   170   9.5   -	NadCr dEkFl.90   59.0 -0.2   92.5 7.5   NedMid8k(Fl.00   210.5 -1.5   24   0.7   Oce   Fl.20    171.2 + 0.2   58   4.5	Sofina 3.510 -05 210 2.1 Selvay 9,625 A2.10 8.7	Petroliber	Mitsubishi Hevy 134 —9 12 4.4.  Mitsubishi Corp 426 +3 13 1  Mitsubishi Corp 514 +4 14 9
RijschVeriFi160   30.1 +0.0   50.5 ±6.4   8.5   8.5   Royenito (Fi.50). 150.tm   -0.5 ±6.4   8.5   8.5   Royenito (Fi.50). 150.tm   -0.5 ±6.4   8.5   8.5   Royenito (Fi.50). 150.tm   122.5 -0.1 ±19.5 ±3.8   Royenito (Fi.50). 157.3 -0.5 ±3.7 × 8   Mar. 30   Price   -t er   Iliv.   Yid.   Royenito (Fi.50). 157.3 -0.5 ±3.7 × 8   Mar. 30   Royenito (Fi.50). 157.3 -0.5 ±3.7 × 8   Royenito (Fi.50). 157.3 × 8   Royenito (Fi.50)	Van Ommaren 170 —9.5 — — Pakhoed (FI,90) 45.5 +0.6 — — Philips (FI,10) 24.5 —0.2 18 6.2	UC8	5ogefise	Nippon Denso 1,350 —30   15   0.   Nippen 2hinpan   730 —12   12   0.
Royalflutch Fi90   137.3   -0.5   53.75   7.8   Mar. 30   Kroner   -   2   2   2   2   2   3   3   3   3   3	RinSchVer(Fi160) 30.1 + 0.0 Robeso (Fi.50) 160.52 - 0.5 26.4 8.5 Rolinco (Fi.50) 130		Union Elec	Pieneer
Viking Res.         45.5—0.2 80.26 1.0         10 6.5	RoyalflutchFi90 137.3 —0.5 53.75 7.8 20 21avenburg 952.6 —1.0 20 7.9 Tokyo Pac Hids\$ 128.5 ÷0.5 \$0.36 0.6	Mar. 30 Kroner - 2 2	STOCKHOLM	Sony
VIENNA         Bryggerier	Viking Res 45.5 -0.2 80.20 1.0 Volker Stevin 85.5 -1.6 10 6.3	Oanske Eank 191 m + 154 19 9.9 East Asiatic Co. 152 12 9.1		Teljin 152 -2 10 5. Tokyo Marine 474 +1 11 1.
Mar. 50   Price   + or   fliv.   Yid.   Mar. 50   Price   + or   fliv.   Yid.   G   Ntn H   (Kr90)   S21     12   3.4   Atlas Cop. Kr25,   106   + 1   7   5.7   5.9   Solveta   Moved Kabelian   Hoyolng stries B   Hoyolng stries B   Hoyolng stries B   Selecta		Bryggerier 284  +1   12   4.2   For Papir 104  -12	Alfa LavaliKr.50 139 +9 5 4.4	Tokyo Sanye 443 12 1.
Croditanstalt 346 10 0.9 Olislabrik 125 +1 - Carde 254 174 +1 5.75 3.2 Olislabrik 1353,xt +134 13 0.7 Cellulosa 254 11 4.3 Semporit 84 +4 8	Mar, 30 Price + or fliv. Yid.	G Nthn H (Kr90) 321 12 3.4 Nord Kabelian 1854+4 19 5.5	Atlas Cop. Kr25, 106 +1 7 5.7	Toshiba Corp 148 -3 10 3.
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tive tasks under supervision. Principal and interest, 5 with narryeary payments of interest only. Avv.		GERMANY.+	Fagersta
WALL STREET		Mar. 50 . Price + or Div. Yid.  Mar. 50 . Price + or Div. Yid.  AEG. 63.0 - 0.2 - 5.2  Alianz Versich. 67 - 3 51.2 6.3  SMW 298.5 + 0.5 28.12 6.9  BASF 0.4 18.78 6.9	Marabou
18   18   18   18   18   18   18   18	275	BANW	Price   + er   Oiv   Vid.     Mar. 30   1.900   15   10   9.6     BISC   A'   1.900   15   10   9.6     BISC   A'   1.900   15   10   9.6     BISC   A'   1.900   10   22   1.8     Do. Part. Cert.   290   10   22   1.8     Do. Part. Cert.   290   10   22   1.8     Credit Suisse   2.625   10   2.4     Electrowatt   2.035   10   2.4     Electrowatt   2.035   10   2.4     Fischer(Georg).   705   6   3.8     HoffmanPtOert. 78.750   -250   110   1.4     Do. Res   3.400   -38.7   1.6   1.0     Drierille   1.700   1.10   -15   388.5   2.4     Do. Res   3.400   -38.7   16   1.0     Drierille   1.700   1.10   -15   388.5   2.4     Do. Res   3.400   -38.7   16   1.0     Drierille   100   -10   -15   388.5   2.4     Do. Res   3.400   -38.7   16   1.0     Drierille   100   -300   -46   26   1.5     Do. Part Corts   532   -5   28   8.4     Drierille   100   -300   -300   -300   -300     Drierille   100   -37   -7   14   3.9     Outzer   0xf.   100   -37   -7   14   3.9     Sw. Bk. OpiFloon   524   1   10   2.0     Sw. Bk. OpiFloon   11.55   -4.05     Aust. Hational Industries   11.55   -4.05     Aust. Hational Industries   11.55   -4.05     Aust. Hational Industries   11.8   -4.02     Blue Metal Ind.   11.00   -1.18     Bouge Inville Copper   11.55   -4.05     Sw. Bk. OpiFloon   11.55   -4.05     Blue Metal Ind.   11.00   -1.18     Bouge Inville Copper   11.50   -1.0     Broad   100   11.50   -1.0     Broad   100

Price   + or   Div.   Yid. 11M.   -   2   5   5   5   5   5   5   5   5   5		Amalgamated Rudber.   5.10   2.76;   Cheung Kong
200.5 -3.0 26.59 6.6	SWITZERLAND P	Hong Kong Land

8 5.8 8 0.4	Do. Part Corts 532		8.4	Mer. 30	Cruz		Oiv. %
5 2.4	Sehind'rCtF100 398	_3 12	4.7	Acesita	0.86	0.02	0.18 0.14 0.12 0.0a 0.27 0.2a 0.08 0.0 0.80 0.6
2 2.6	Oulzer Ck(F.100) 347 2wissalr (F.350) 848 5w.8k.Cp(F100) 324	_7   14	3.9 4.1	i Sanoode Srazii	1.47	+0.12	1.12 0.0c
-	Sw.8k.CpiF100) 324	+1 10	. 2.0	Banco Itau PN Belge Mi'elre OP	1.32		3.27°0.2.
7.4	Sw.Rains.(F250) 5.275	-50 / 40	- 1.9		2.82	+ 0.00	0.80 O.C
2 5.7	Union Bank 3,346 Zurich ins 18,600		5.9 1.7	Petrobras PP	1.44	+0.05	3.16.0.0
8 3.7		' .		Piralli 11P	1.63	-0.140	1.160.1
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# West Berlin

Although it is Germany's largest industrial city, West Berlin remains viable only with the considerable financial support it receives from the Federal Republic. But its problems have often been vastly exaggerated and the city has managed to adapt well to living behind the border of Communist East Germany.

# Battling against the odds

By Jonathan Carr

WEST BERLIN is alive and well—and remains one of the democratic world'a most rewarding cities although it lies more than 100 miles behind the border of Communist East Some used to think that-West.

Berlin would be swallowed up by the Communist world, if not through direct, military action then by other external pres-sures which would make life there impossible. When this proved to be morrect it became fashionable to suggest that the city, drained of vitality by its internal problems and its

ong

iff of the Wall—the place where the Cold War was most but particularly acute there.

It is a tribute to the success Four-power Berlin Agreement, and of the subse-quent accords between East and industry, a boom sector where West Germany, that this fascinating hut unsettling political role is less often talked about now. As the excitement of the initial thrust of the "Ostpolitik" at the start of the 1970s began to dwindle. West Berlin became a more normal city and Broblems which had long existed, swam into public view.

True, West Berlin remains the largest industrial city of Germany (or as one commentator with an interesting perspective put it, the most significant industrial centre between Paris and Moscow) But it is not viable without big financial supcort from the Federal Republic, Raw materials must be brought in from the West at great cost and the city has to provide its own nower supplies without the backing of a larger grid at times of peak demand.

by its internal problems and its unique political position would simply fade away. It must be real bluterland and no constressed therefore that reports muters from the countryside of West Berlin's impending Those who leave the city go demise have been vastly right, away and are smally lost exaggerated.

Of course, West Berlin has to Berlin for good the ponulation, which has been declining problems—many but by no ing. now stands at about 2m and means, all matched in other is likely to drop further. This major European cities. These is partly because for years more problems were for a long time become have been feaving than problems were for a long time people have been leaving than largely ignored by non-Berliners, have been moving in although

exceeds the birth rate, not a

Some mirrored those occurring in West Germanysome over-reached themselves and went hust when the economic downturn came. Others were the familiar signs of a political leadership longsome said too long-In office.

But the democratic checks and balances have operated well enough. The Social Democrats (SPD) who have always held Government office in West Berlin, had to go into coalition with the Liberal Free Democrats (FDP) in 1975. The SPD then stabilised its position under a new and effective governing mayor, Herr Dietrich Stobbe, and the SPD-FDP, alliance was confirmed in elections last month, despite a strong opposition challenge.

Finally-neither a problem nor a scandal but a mystery: well-Informed Germans tend to he stuck for an answer when asked to define West Berlin's status. The city is, after all, a land (state) of the federation according to German law-but supreme authority remains in the hands of the four wartime Allied powers.

The city is incorporated-in the economic and legal system of the Federal Republic and close to 30,000 federal employees work there. But, as the four-power

not governed by it (although ties problem in West Berlin alone between the two can be maintained and developed). Little

wholly clear precisely what sort of entity they are supporting. Mucb of this may seem dis-

because of the city's inter a near balance now seems to agreement points ont, West comments indicating that they German writer Hans Magnus national political importance. have been gained. But it is also Berlin is not a constituent part will defend West Berlin to their Enzensberger caught the mood Berlin was the "ontpost of because the death rate markedly of the Federal Republic and is last breath, but that they are not well enough when writing about freedom," the city of the air-exceeds the birth rate, not a not governed by it (although ties wholly clear precisely what sort the German states: "We Berlin has bad its scandals wonder that American Presi couraging—or at the least dis-oo. Some mirrored those dents have been known to make orientating. The modern

# Berlin — East and West



German states: belong," he said, "to two parts of a whole that does not exist. Two parts, each of which denies being a part, and each presents ltself in the name of the whole. . . . This condition is regarded as at once temporary and definitive—the provisional is inviolable."

optimism about the future he justified? Some reasons are political (and described in more detail elsewhere in this survey). The two German states are gradually improving contacts and relations between them. process has henefited Berlin already and surely will built from war debris. continue to do so.

But it is also worth standing hack and taking a look at the historical perspective. Even the city's division is not as modern a phenomenon as many might imagine. Berlin was born from two trading towns on either side of the River Spree which viewed each other with distrust even after their leaders had agreed on a common town ball at the start of the 14th century. Each was under geographical and economic pressure to cooperate with the other-and with time this is what happened.

United Berlin had many crises. Today the population decline is a matter for concern. But It is worth recalling the shocking setback of the 30 years war in the 17th century when the town, by then an important trading centre, was made by warring parties to pay tribute to each but was finally sacked. The population of about 10,000 dropped by almost half, yet decades later Berlin was more important than hefore and hy the time it became the capital of the German empire in 1871 nearly 1m people lived there. The First World War, hyper-

inflation, strikes and street violence gave way to the "Golden Twenties" when Berlin confirmed its industrial and cultural pre-eminence. Then came the era of Nazi power, another war, destruction and a 1.5m drop in population to ahout 2.5m. The recital of such figures bardly belps comprehension of the disaster. It is much more striking to stand nearly 400 feet up on Berlin's "Trummerberg" mountain and recall that it was

### Vitality

Immense vitality, the ability to make a comehack against all odds, is the common thread which runs through the city's history. Despite the departure the West and the arrival not only of other Germans but many foreigners too, there remains a Berlin "flair" — recognisable Berlin "flair" — recognisable even to those who first learned of the city's character from

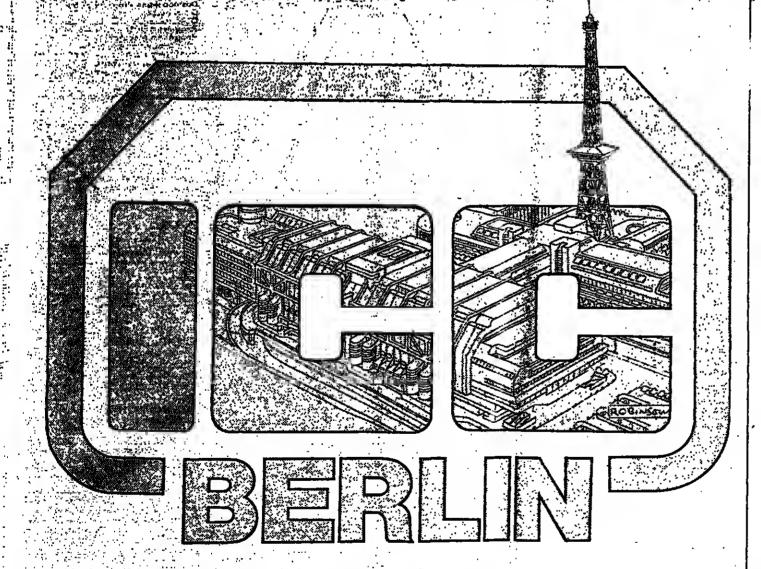
books written decades earlier. Part of that quickness of mind and sardonic sense of humour, which many West Germans find uncomfortable about Berliners. may even be of French origin. Thousands of Huguenots who fled their homes after the revocation of the Edict of Nantes in 1685, settled in Berlin. Can that be why Berlin

cabarets, political and otherwise. bave a flavour which often evades those in Hamburg and Munich (unless, of course, they are run by transplanted Ber-liners?) Might it not also belp explain why Berliners can give a peculiarly clear-sighted, logical critique of the West German way of life even as they henefit from its successes-a richly lronic situation which Berliners

will wryly acknowledge. Despite several rival claims, Berlin is still the only German city with the "feel" of a capital about it. This is not simply because of the reminders of the past - the Reichstag (where parliamentary groups still meet from time to time), the Brandenburg Gate, Charlottenhnrg Palace and so on. Nor is it a question just of injections of outside money. It bas much to do with preservation of tradition even though so many factors have told against this,

There could examples, culturally and otherwise. One will suffice: a concert in February given by the peer-less Berlin Philbarmonic Orcbestra, its members, playing as though their lives depended on it, in their concert hall hard by the wall dividing the Eastern and Western sectors.

The programme noted that exactly 50 years hefore, the ing under Furtwaengler with Kreisler as soloist. It is bard to believe that those who performed then would have had anything but praise for their successors. They would surely have found it gratifyingly like

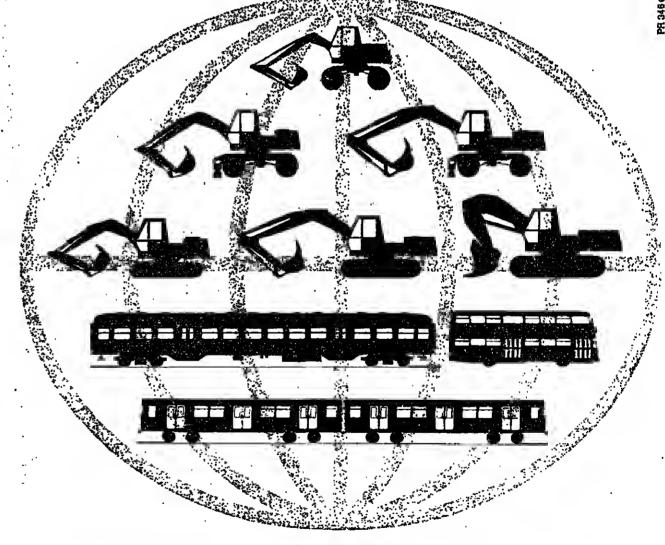


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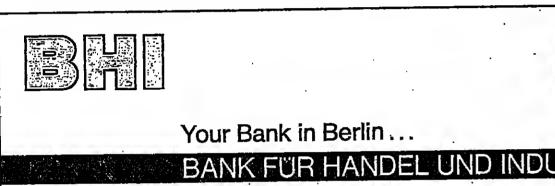
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# Economy operates Co efficiently

WEST BERLINERS take for this granted the highly efficient way their city of some 2m is supplied round the clock from West Germany and sends back most of its processed goods. This past winter, though, it struck home that not once did West Berlin experience shortages of any Communication of the communication of the structure of t experience shortages of any kind or cuts in electric power during the severest storms in decades that wrought havoc all

arnund the city.

One little-noticed event illustrated the enormous improvements in West Berlin's position since the Four Power Agreement 30 years ago. Although East Germany was struggling with serious shortages of fuel and railway transport, it diverted extra East German Reichshahn trains to transnort oil from Hamburg to West

The annual transnort across
East Germany of DM 44hn in
goods between West Berlin and West Germany takes place with fewer delays than experienced by most large cities. West Berlin's geographic position is to he enhanced in coming years with the construction of an Autolicha linking the city with Hamburg, while freight estried over the casals linking West Berlin and West Germany will he sneeded no by the reopening of the Teltow Canal in West Rovin, closed after the huilding of the Berlin Wall. A custer of all freight carried hetween the city and West Germany already is shinned by harge. West Berlin's gross domestic

product last year rose 3 per with 34 ner cent in West Cormany, an improvement that is expected to continue this year with an increase of 35 per cent in GDP for the city against. I ner cent growth in West

For several years Berlin investments lagged behind those in the Federal Republic but last year capital goods investment was no 10 per cent and is expected to rise by about 8 per ceo; this year, or about the same as in West Germany. Philip

essistance. It receives from most expensive cars in Germany The loss of industrial jobs is Boun. The Federal Government are driven from Grunewald a problem in West Berlin just

Contrary to some fears when

the Four Power Treaty was signed. West Germany has steadily increased its financial support for Germany's largest city. Only last month Bonn city. Only last month Bonn agreed to double its yearly subsidy to DM 83m for lowering the fares of passengers using British Airways. PanAm and Air Frence flights between West German cities and West Berlin. Federally-owned companies placed DM 351m in orders to West Berlin companies last year and Chancelles Helmut Schmidt and Chancellor Helmut Schmidt and the Economics Ministry have leaned on major West German companies to buy from West Berlin companies, all things being equal.

### Lucrative

The largest single subsidy to West Berlin, amounting to DM 18bn in 1977, is the reduction in the 12 per cent Value Added Tax from between 4.5 per cent to 10 per cent of the price of a product being sent to West Germany. The reduction depends on the value added to the product in Berlin and, before a 1976 ruling that at least 10 per cent of the product's value must be made in Berlin, there were some glaring ahuses. For example, West German coffee roasters found them-

selves losing their traditional husiness to West Berlin, and meat slaughtering hurgeoned out of all proportion in Berlin where it took little more than a blow to a carcass to qualify for a healthy reduction in VAT. Sticking a lahel on a hotte of West German Ilquor and sewling a futton on a finished jacket in West Berlin boosted profits considerably. Those indulgent days are over but it still lucrative enough for many West German and foreign companies to manufacture in West Berlin.

Borlin, Annual Sticking in the West German and European markets from the city. Schering, the Berlin chemicals and pharmaceuticals company with 10,000 employees, bas inter-

Berlin's investment subsidy Berlin's investment subsidy is nearly as important and came to DM 384m in 1977. The city will bny a company a factory site for which it then pays 4.5 per cent of the purchase price and gets a hereditary lease. Companies are also reimbursed 12.5 per cent of huilding costs and the city gives a 25 per cent rebate for investments in machinery and equipment. Low-interest European ment Low-interest European Recovery Program loans at 3.5 per cent for up to 14 years are made available for investments in huildings and machinery along with other advantageous city credits which amount to DM 126m a year.

A few weeks ago, the West German Bundestag voted to further improve assistance to Berlin by including engineer-ing consultants among the com-panies allowed VAT preferences. In addition, investment subsidies are raised for the purchase of buildings used for research and development and for data-processing equipment used io providing services for West German companies. The companies profiting the most in Berlin are capital intensive ones that have a high volume ones that nave a mg votation of investments, are profitable and sell most of their products to West Germany or export them. A company such as BMW has its entire motorcycle production in Parling and is now duction in Berline and is now investing DM 180m to build a new factory that will produce

Morris for example is investing DM 4llm to expand its Berlin Second most important factory. Bosch is investing DM 35m. Dainiler Benz DM 100m and Siemens DM 12m after putting DM 1bn into its factories in the city over the past seven years.

West Berlin's economic life is intertwined with West Germany and income taxes are 30 per cent less. Small wonder that some of the past seven gesistance. It receives from seconomic life is most expensive cars in Germany.

Berlin. Second most important among the preferences granted to West Berlin's industry are income and corporate tax reductions amounting to DM 395m. Corporate taxes are unusual there. The west Germany and income taxes are 30 per cent less. Small wonder that some of the most expensive cars in Germany.

The loss of industrial tobs is

this year is paying 51 per cent of the city's budget or, DM 8.4bn. West Berlin gets 58 per cent of the economic assistance West Germany grants to regions requiring aid, which is an even higher proportion than a decade ago.

mansions to the fashionable as in West Germany and several large companies, especially in industries with structural problems such as mechanical engineering, have closed down. The number of workers in industry fell by another 5,000 last year but steaded late in the part of the fashionable as in West Germany and several large companies, especially in industries with structural problems. The average Berliner companies as in West Germany and several large companies, especially in industries with structural problems. The average Berliner companies are companies as in West Germany and several large companies, especially in industries with structural problems. The average Berliner companies are companies as in West Germany and several large companies. restaurants off the Kurfürstendamm. The average Berliner has the highest level of consumer goods among West Germans and, in fact, enjoys 8 per cent more income than in West Germany if he earns up to DM 30,000 a year.

Rerlin's investment subsidy large companies, especially in industries with structural problems such as mechanical engineering, have closed down. The number of workers in industry fell by another 5,000 last year but steadled late in the year at 172,000, a level its is expected can be held this year but which is down from 265,000 jobs in 1972

The city extols the advantages to companies of being close to West Berlin's scores of research and development institutes, including the Hahn-Meitner Institute for Nuclear Research, the Heinrich Hertz Institute, four institutes of the Max Planck Society, the Federal Agency for Materials Test-ing, the Institute for Produc-tion Technology and Automation as well as the Technical University. West Berlin companies spent DM 540m on research and development in 1977 with the largest smount DM 327m spent by the electrical industry and DM 169m by the chemicals and pharmacenticals sector.

### **Expansion**

One area in which additional jubs are being crested is the service industry. The number of service employees rose last year by 1.2 per cent to 148,000 or, 18 per cent of all employees. They have profited from the city's growing tonrism, conventions and trade fairs which have also made necessary an expansion of hotel room capacity by 3,000 new rooms up to mid-1985. The city is now in the odd situation of having to find future hotel employees in Sicily because they are lacking in Berlin along with many other skilled workers.

Rest

the

West Berlin bas msde considerable efforts to attract West German workers to the city, whose population fell by 17,500 last year largely because of the excess of desths over hirths. Estimates have the city declin-ing in population to 1.7m by the turn of the century, by which time it may bave started attracting people from more overcrowded regions. The number of foreigners in West Berlin is continuing to rise and will reach 210,000 this year, making one in every ten West Berliners a foreigner or a first generation

Leslie Colitt

Berlin correspondent

# The wall becomes 'porous'

after 18 years of absence. The dropped out of sight. It is first lione (three days before the worth glancing back at what first lime (three days before the building of the wall in 1961) has been happening. me contrast with the western sector was sharp enough. West democratic world," and while the city bas always heen more within its limils, was fair with the Soviet onto within its limils, was fair with the Soviet onto within its limils, was fair with the Soviet onto within its limils, was fair with the previous year. Poland in the previous year. But it was the four-power which laid the hasis for windows to speak of, glittering or otherwise. The architecture appeared to be either bomhastic the Soviet pattern, or dour blocks of dwellings, after hlocks of dwellings, after nobody's style in particular. Colourless, lifeless—it was a pleasure to move on to the relative cheer of Warsaw. Today .those who know other

East European capitals well are inclined to talk of East Berlin as the shop window of Comecon. There seems little reason to challenge this judgment. The city appears quite full of Poles, Russians and others viewing the products of the East German "Wirtschaftswunder" with that same ineasy admirstion which Western European visitors accord the main cities of the Federal Republic. By comparison with the East Berlin of 18 years ago, the shops, the products, some of the main huildings in the centre mark a striking advance. Even the people seem to have changed—or is it just that they are better dressed It is not like Berlin nor, perhaps, would one choose to live there oneself. But it is only fair to report the existence—for those not so far aware of it—of two shop windows in the former capital of the German Reich.

Where is the development leading? It is the obvious ques-So far as one can discover, by anyone. "The Germans are extraordinarily diligent; in the West, in the East." une German commentator noetd earlier this year. "Does that really link them together? I'm just not sure."

The point is that the Gerto the Berlin airlift. mans, through detente, have Third, com received the opportunity to bave used them. They are doing

The key was the Four Power agreement (hite United States, Berlin was described as the the Soviet Union, Britain and glittering shop window of the France) on Berlin, of September 3, 1971. That did not mark the start of Ostpolitik-Bonn had already signed agreements future advance in three main

> first time in treaty form recognised the close ties hetween West Berlin and the Federal Republic and agreed that these should be developed. It is true that there have been repeated squabhles over this part of the text, with each side interpreting word "ties" in the way hest to suit itself.

### Ouarrel

It could well he that another quarrel will arise shortly over the participation fo West Berlin in direct elections to the European Parliament. But one only has to compare the level of disputes with these dangerous situation existed hefore 1971 to recognise the extent of the progress made.

Second, transit traffic by road, rail and water through East Germany to West Berlin was not only to be unimpeded but would rcceive major benefit besring in mind the repeated harassment to which Berlin's land lifelines had been periodically subjected -and to which they could he subjected again without treaty regulation. Some may recall this larconic message: "Due to The date was June 23, 1948. It Helmsted in both directions...." German was the Soviet action which led mans.)

hetween West Berlin and East so more than ever at a time West Berliners to visit friends when for many in the West the and relatives on the other side

IT IS revealing and though- "Ostpolitik" of former Chan- of the Berlin Wall. The agree-provoking in revisit East Berlin cellur Willy Brandt has almost ment, the result of hundreds of hours of negotiations between the Western Allies and the Russians, was followed by further detailed, difficult talks hetween the Esst and West Germans, who signed their own

regulating

A few figures will indicate the

extent to which these agree-

ments have made their impact-

relations in 1972.

general

recome "porous" as it were. West Berliners are allowed to visit East Berlin and East Germany for up to 30 days a year. First, the Soviet Union for Last year West Berliners alone made more than 3.2m such visits -some just for part of the day, some for longer. At the same lime almost the same number of West Germans visited East Germany (against 2.2m in 1973).

The number of East Germans coming the other way is much lower—confined, at present, to those of pensionable age or those who wish to visit the west for urgent family reasons." Nonetheless the total last year was 1.4m. Even the statistics for telephone calls ahow how the situation has changed. In 1970 there were still no direct calls from West Berlin to East Berlin and East Germany-in 1976 there were more than 7m.

Beyond this growing network of personal contacts, which clearly must have an impact on the ideas and judgments of both sides, official talks have been going on. The most notable outthe two German states signed a series of long-term agreements to strengthen further West Berlin's ties with West Germanywhile providing East Germany with more hard currercy. (It has to he nated that the West Germans have paid large bills for many of the advantages a technical defect on the rail- gained over the years. The arguway the transport administra- ment is that if the Berliners tion of the Soviet military gsin, which they obviously do, administration in Germany wss and the East German people forced to balt passenger and henefit, which presumably they goods traffic on the line Berlin- must be some degree, then it is a price worth paying. The East Germans are, after all, Ger-

The main element in the communications new accords in construction of new motorway between Germany, including East Berlin, Hamburg and West Berlin were to be improved allowing across East Germany. This is West Berliners to visit friends important, incidentally, not only to the Germans, but also to

Czechoslovakia and Hungary, which make big use of Hamhurg port Further, it was agreed that East Germany will reopen the Teltow Canal—thus shortening the barge trip from West Germany to West Berlin by two days. Talks are to go ahead on improvements and further meanwhile other official but non-governmental contacts are gathering pace. Fnr example, a smiling Herr Eugen Loderer. head of the West metalworkers union IG Metall, could recently be seen in East Germany, agreeing that he and his East German colleagues did not see eye to eye on everything, but that they found it useful to have contacts and develop them.

### Kesponses

The word "reunification" has been deliberately avoided since it arouses so many further consideration of the question difficult. (It is worth recalling, however, that the premable of the Federal of the Federal Republic's visinnal constitution | says that the entire German people are called upon to achieve in free self-determination the unity and freedom of Germany.") But if a key aim of Ostpolitik was for bring the two halves of Germany closer, to move towards a situation in which the Berlin wall became increasingly irrelevant, then it is fair to assess the policy as already a success-and, barring a serious rise in tension between the super-powers, likely to become still more so.

Leaving aside politics for a moment, it is worth recalling s song by Herr Wolf Biermann, the West German satirist who chose to live in East Germsny but who was prevented from returning there after a concert tour in the West in 1976. Called "Deutsches Miserere" he sings of the people of Europe perhaps, are fortunate hecause Germany is divided late two hostile parts. But the wal will come down, be insists, and much will change on both sides. Politicians are not renowned for taking much notice of troubadours-even good ones. Perhaps in this case they should think

Jonathan Carr

# Congress centre on the grand scale

on the congress centre's grand seventh place internationally. stage by the Berlin Philhar Herr Peter W. Haupt, the monic Orchestra, under building's general manager, says then be raised to create a ball-from can therbert won Karajan, and the he bopes that by 1985 West Berroom holding 4,000 or a banqueting hall seating 3,200 Böhm and the Vienna Philno less attention has been paid to the acoustics of the build-ing's enormous multi-purpose halls than to their commercial

viability.

The opening of this DM 800m (£210.5m) futuristic structure is designed to help make West Berlin the first-ranking con-

vention city in Germany.

The silver-sheathed building, which appears to glide along its site like some gigantic opened matchbox, exudes the energy that typifies this city at its best. Situated next to the sprawling Berlin Exhibition Grounds and linked to them by a three-storey flying bridge, the build-ing also represents the city's even more ambitions goal to become one of the world's foremost convention centres. Convention-goers will cer-

tainly appreciate the centre's siting, five minutes by bus or vention or conference, the two underground from the heart of main halls,—separated by the West Berlin and less than 10 enormous central stage — can

The accompanying concert move the city into sixth or

among the world's convention harmonic, will demonstrate that crities, behind London and Paris.

> vention managers in other collapsing has been installed io German cities than we have with our colleagues in Paris and corporated except for side-rests never be made profitable, and London," he explains. The to permit a conference snooze the new congress centre is rereason is that interpational conventions and conferences wander over the globe, and when they choose to meet in Europe, only one country is considered each time. Most of the rivalry takes place between that country's cities to bost the convection, and this also ex-plains why the new Berlin centre is so large.

"This year we will have three events with 5,000 people at each of them." Herr Haupt says, and this will fully ntilise capacity. Next year there will be five events of this size.

Depending on the type of con-

expected to propel West Berlin take part in a conference in into first place in Germany, and Hall 2 when seating galleries are lowered from the ceiling, turning the hall into a tiered room holding 4,000, or a banqueting hall seating 3,200 diners.

A specially-designed Berlin "There's far more competi-tion between ourselves and con-keep occupants' spines from both balls with everything in-convention centres probably can-corporated except for side-rests never be made profitable, and halls, the congress centre has a of about DM25m (£6.5m) third auditorium with 870 seats, anoually, in line with other conand seven other rooms seating vention centres. from 126 to 288 people. Another Financial be 70 rooms of various sizes pro- accrue will go to the economy of for working groups.

> Company's shareholders' meetmeeting of Daimler-Ress; car botels, restaurants and shops. dealers, a shareholders' meeting

gress centre is booked solid, with 100 conferences and conventions. Another 270 events are oow heing worked on, op to 1985, and the centre is negotiating to hold conventions of 6-7.000 participants in 1987 and

### Benefits

However, Herr Haupt says that In addition to the two main ceiving subsidies from the city

Financial benefits that doout that the average convention-Among the larger conventions goer spends DM 250 a day or and meetings to be held at the four times the amount of the centre this year will be the average tourist. Participants at European Brewers' Contention the centre's conferences and connext month: the Volkswagen vertices in the first year of oneration are expected to spend ing, with 4,000 participants; a shout DM 120m in the city's

by the Siemens Company; a io the heart of East Germany. Fairs and Congress (AMK) Grounds, with 24 large halls in attracted 626,000 visitors when

WHEN THE International Congress Centre is opened in West gress centre is opened in the German Social Compnoy, and the German Social They point out that East grouped the German Social Democratic Party's national convention.

A main event next year will be a world conference by the Hoechst Compnoy, and the German Social Democratic Party's national convention.

A main event next year will be a world convention of the International Bar Association.

From now until 1981, the congress centre is booked solid, opened in Compnoy, and the German Social Compnoy, convertible currency, rather than pay for costly trips to the

> The idea that West Berlin may not be acceptable to East European governments for political reasons is discounted in the city. East European experts are expected at the European Brewers' Convention and the interoational meeting on East Europeao automobile production because they profit from such contracts.

· Similarly. East European participation is beaviest at those West Berlin exhibitions and fairs where East European countries see a direct commer-

cial gain.
All the Comecon countries are vide more intimate surroundings West Berlin, he says, pointing national Tourism Exchange, held regular exhibitors at the Interin the city in March, and which this year had 700 exhibitors from 80 countries and regions. It is regarded as a highly-successful event because of the importance of the West German holidaymaker to international tourism. The International Congress Centre and the adjoining Berlin dealers, a shareholders' meeting The organisers of West Exhibition Grounds are seen by Exhibition attract several of West Germany's largest company, Veba; a inhile celebration believe that the city's location Berlin Company for Exhibitions. The Berlin Exhibition

The new centre: typical of the brash Berliners

The Tourism Exchange, for 120,000 trade visitors from national Green Week and the International Radio and TV

mutually complementary, a park-like setting, make West it was last beld in 1977. because trade and speciality. Berlin the fifth-ranking exhibition fairs are increasingly being tion city in West Germany. September is another success-held together with conventions. Last year 1.6m people, including ful event which provides a trade exemple, takes place with a con-gress cach year, and the Inter-exhibitions in West Berlin.

and contact forum on products from developing countries. The German Industries Exhibition lo addition to the Green Week beld to Berlin every other year, and the Tourism Exchange held is to have greater participation earlier this year, the major than ever from the West German and servicers. coming event is the Redio and car industry next year.

Exhibition TV Exhibition in August, which

The Overseas Import Fair in and contact forum on products

Les'ie Colitt

# Restoring the city

ONLY A few streets from the halla. Across the street from only A few streets from the halla. Across the street from pulsating Kurfürstendamm are the State library is the by now quiet tree-lined residential classic National Callery by neighbourboods with amall Ludwig Mies van der Rohe, family owned stiops in 1890s. In West Benlin's eagerness to Wilbelminian buildings that duplicate in miniatures, all that would long kinice; have been seems modern alsowhere, the raised to make way for office city has built over 30 kilometres.

spared the imbroken racades of glass and steel in a midely drained of life after darkness. The city's blend of apartments, offices and shops is less a virtue than a product of necessity as West Berlin has no uburban hinterland luring its

incercity residents with pre-fab housing. Despite the building of over half a million new flats since the war and the apparent balance in housing of 1 im flats balance in housing of Lim hats to 1.9m inhabitants, newly arrived West Germans say the actual housing shortage is worse than in West German cities. For one thing the city still has ever 600,000, apartments, beated by coal-burning ovens and 250,000 coarourning overs and 250,000 flats without either bath or tollet up both. The worst housing is occupied by 180,000 foreign workers and their families, mainly from Turkey, while West Berlingers and West-Germans compete for the better

The city's goal is to modernise 200,000 substandard dwellings in the part 25 years at a cost of over DM 9.8km of which DM 7km will be in public funds mainly from West Germany. This marks the most ambitious project in Germany to restore the inner districts of a major city and prevent their decay

An international building exhibition is to be held in West Berlin in 1984 to demonstrate at first hald how city cores can be revitalised. One can view the results of the 1931 bullding exhibit on housing estates in green spaces by visiting the Horseshoe Siemens and Uncle Tom's Cabin bousing estates which are still regarded as highly livable in by their occupants.

## Renovated

Some 60,000 apartments are to be renovated and modernised as part of the 1984 exhibition, while the old town in Spandao district, is to be fully restored with four city squares given back their lost urban quality. Nine thousand new flats are to be integrated into the inner city without sacrificing green sur-roundings. West Germany is providing DM 48m to recon-struct the former Applied Arts Museum with the help of Polish craftsmen, the Ephraim Palace is also to be rebuilt at a cost of DM 22m and is to house, among other things, the Jewish Museum of Berlin. Yet another restoration is that of the citadel in Spandau, to be completed at a cost of DM 72m with DM 27m coming from West Germany.

West Berlin's postwar cul-tural complex arcing toward East Berlin's restored Unter den Linden, has a DM 200m addition, the State library designed by the late Hans Scharoun was also the gifted architect of the nearby Philharmonic building whose striking in the round interior and acoustics make it one of the finest of modern coocert

buildings in most West German of inner city autobaba which is cities. West Berlin is gullty being expanded by another 19 of its there of urban mis-planming, but thus far it has been if Berliners have not rebelled

by theo.
On the positive side West
Berlin's underground, which is 97 km in length (East Berlin has another 26 km), is to be expanded to 140 km in a few years and 200 km is the goal. Public transport lo West Berlio supplemented German-run urban elevated railway, the S-Bahn, which provides one of the more unusual tours along the West Berlin side

### Amenities

Although Berlin already has more amenities than many other large clties, it is trying to improve their distribution. West Berlin's 360 km of streets with bicycle paths, mainly in the suburbs, are to be expanded to over 500 km including inner districts. The city is well endowed with green areas but the spread is unequal. The southeast district of the city is to get a wholly new park by 1985 when the West German garden show is to be beld in Berlin.

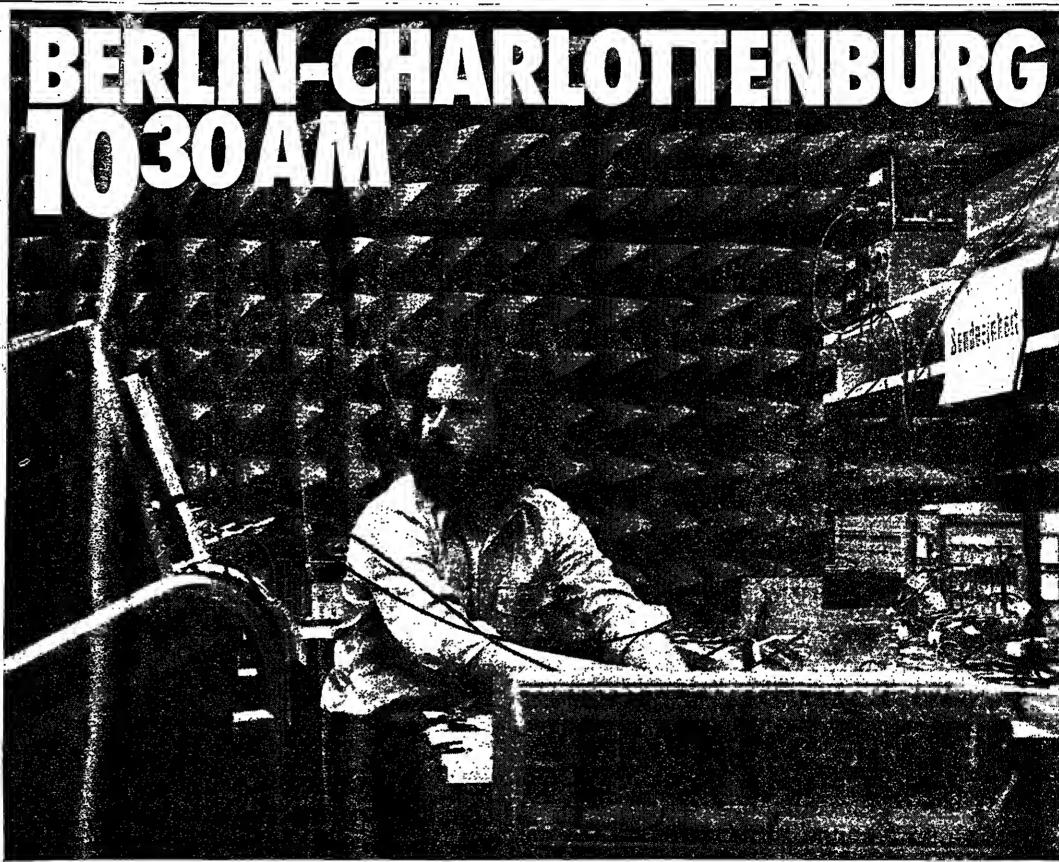
Elsewhere, the created 20 recreation areas on top of 250 hectares of former garbage dumps containing 100m cubic metres of rubble and waste; DM 67m is being spent oo completing this urban land reclamation by the mid-1980s.

Young adults in Berlin are showing increasing interest in a form of Berlin family life that flourished over the years but appeared in danger of heing extinguished: the allotment garden. Here families spend their free hours tending fruit trees and flowers and drinking and eating with friends outside their tiny bouses. Relief is offered from city pressures which are often only a few huodred yards outside the gales of the garden colonies. West Berlio still bas 48,000 of these allotment gardeos and, although many of them were eliminated in recent years by road construction, the oew policy is to eosuré their survival as a stablising influence in a root-

less era.

Irooically, Berliners feel hemmed in when they live in most other cities and the explanation is that Berun has the largest forest area of any European city. Statistically, there are 36 square metres of the largest forest area of the largest forest area. woodland for every West Berliner and on warm summer days they lay full claim to them. More than balf of West Berlin's 184 square miles consists of forest, lakes, gardens and parks and in mid-summer there are actually traffic jams involving thousands of boats of all sizes on the Wannsee and oo Tegel

West Berlin's statisticians work their limited territory rather intensively and have come up with the fact that all the water frontage in the city adds up to 300 km. In this day and age how many cities are able to spend DM 600,000 a year aimply on preserving and planting reeds along their lakes and



# Research for Tomorrow's World

The future is daily routine at Heinrich-Hertz-Institute for communications technology. Here basic research goes into the development of new sound and picture transmission systems, such as twoway cable TV, text screen display, laser beam and fiber glas as media for storing, transmitting and processing of data. The impact of new technology now under development has yet to be assessed. It will provide new highly qualified jobs, revolutionize office management and open up a whole new dimension of utilizing TV systems for telecommunication.

A total of DM 600 million annually goes into research and development in Berlin. With its 106 institutes, 9 technical colleges, 2 universities and its cultural and scientific background Berlin rightly lays claim to being the Federal Republic of Germany's centre of science and research. For more information turn to Berlin's press and information centre: Presse- und Informationsamt des Landes Berlin 22/79, Rathaus Schöneberg, 1000 Berlin 62.

Research in Berlin

# Provocative city liked by artists

A FOREIGN theatre director former mayor. Herr Willy films in the city. And the lure says living in Germany brings Brandt, confronted the Commay even work, out a creative tension between munists before and after the Barlin may us He would find Berlin tailor was not going to open it up.

and yet the Berliner has had his pare incomes and prices. fill of slogans and ideology.

East live in the most dictated-to the schools produce adolts who of proletarian dictatorships.

Berlin is where the Bauhaus, music. The city that once the German art and design created operas, operations movement, reached its zenith songs hummed by generations German and European student revolt was sparked off-by a visit to the city 12 years ago by the

Shah of Iran.
The student revolt subsided into social democratice reforms out an encless stream of quality for Germany but for the Shan films for European audiences. beginning of the end.

himself and his surroundings Wall was huilt and where he because Germans are forever came to the conclusion that butasking provocative questions, ting one's head against the Wall

Berlin is the youngest of the with the greatest resistance on great European cities and yet it both sides of the Wall. It a has seen so much il seems to city where tens of thousands of know it all. Divided Berlin is a Germans from East and West microcosm of divided Europe meel each day and mainly com-

Herbert von Karajan conducts Berliners in the West partake
of the most democratic of
societies while Berliners in the
Berliner single Berliners in the
Berliner single Berliners in the
Berliner single Ber usually do not appreciate good music. The city that once and where a generation later its of Central Europeans now imsuccessors are producing endless parts almost all its popular imitations. Berlio is where the music from the U.S. and Britain.

Fifty years ago Berlin turned

Berlin may uever again have the artistic life it enjoyed hetweeo the two world wars, hut it does have a growing number made for him because it is certainly one of the most provocative cities there is.

Berlin gave birth to detente of German and foreign painters and sculptors who find the it is there that detecte also met almosphere conducive to their work. A lot of the credit for this should go to the Artists in Berlin Programme started by the Ford Foundation and taken over by the German Academic Exchange Service.

The programme has brought to Berlin such painters, sculptors, writers and musicians as Edward Kienholz, Peter Sedgley, George Rickey, Dorothy Iannone, Miklos Haraszti, Rick Cluchey, George Tabori, Witold Wirpsza, and Isang Um Yun, many of whom have decided to stay.

Among the local painters and sculptors with a following are Kurt Muhlenhaupt, whose Berlin primitives are especially popular in West Germany and Bernhard Heiliger, who is mainly a representational painter.

Those whn are knnwledgeable ahout the local art scene say too many Berlin artists are more

engaging in too much cultural Berlin's arts enough.

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important facts about conventions and

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ment on their own. The artists. New York-all of them great student demonstrations of the In turn, criticise the city for successes-while not nurturing 1960s and 1970s have died down hut some of their theatrical

artists than they are in achieve. Show in Paris and Berlin Now in disappointment. The great no fewer than four competing aim is to help Third. World

May Day demonstrations, from the highly organised march-past in East Berlin with thousands of booming loudspeakers, to the clenched fists of the Communist League of West Germany in a working class district.

of the finest proletarian tailor-ing seen off the stage of the Berliner Ensemble theatre in East Berlin. Their discipline is festival and a large city with its nearly as impressive as it was musical programme devoted to during the student revolt when African pop, heat and rock and young Berliners, chanting "Mao Tse-tung" and charging down the fashionable Kurfursten-damm would he stopped in their tracks when the traffic lights

turned red. Schaubuhne The Schaubuhne am Halleschen Ufer, Berlin's most celebrated theatre, is the place to experience extraordinary acting and staging even of un-remarkable plays such as the current Rudi, by Bernard von Brentano. It is being presented in an abandond former lumbrat. in an abandoned former luxury hotel which abuts the Berlin Wall— one of the theatre's temporary venues until its new premises are ready.

The Schauhuhne's current 5½-hour production of Dean Destruction and Detroit hy Rohert Wilson, is a treat for those with the endurance to sit it out in the queues and the luck to get tickets. The Schaubuhne will be getting a reconstructed DM 70m theatre of its own from the city on the Kurfurstendamm . and with the level of public support it is getting, it is hoped that rigor mortis will not set in.

## Walk-out

Berlin is the city of cultural festivals with theatre and music festivals in both east and western sectors and the annual West Berlin Film Festival. This Fehruary it was inter-rupted by a classic Cold War walk-out by the East Europeans over The Deer Hunter, a not very incisive American film ahout the Vietnam war.

A new festival is being beld this year in June called Horizons, the First Festival of zons, the First Festival of World Cultures. It is to be inaugurated by Herr Brandt in his capacity as President of the North-South Commission.

Dr. Ulrich Eckhardt, director of the Berlin festivals, says one

countries strengthen their cul-tural identities. The idea is to get away from presenting, as he puts it. "African symphony nrchestras that play Beet-hoven" and the first Horizons Festival is to stress Africa Young Leftists at the West sonth of the Sahara including Berlin demonstration are the cultures of the Caribbean dressed for the occasion in some and Latin America which were

influenced by Black Africa. Horizons may even succeed in hridging the gap hetween a African pop, heat and rock and African bands appearing at street events all over West

Berlin. Miriam Makeba, who sang at last year's Jazz Days, has been invited to sing along with ten female musicians and singers from Guinea and there will be drummers from Burundi, Yoruba dancers from Nigeria and Afro-soul from the Ivory Coast.

### Seminars

African theatre ensembles such as the Gbana Drama Studio, the University Theatre of Tanzania and the Aafumi Theatre will perform and authors from Black Africa will discuss the role of writers in developing countries.

It is evident that oo expense is heing spared by federal or local government to make sure that West Berlin stays in the mainstream of culture and the arts. This is also the reason the city supports the Aspen few years since it arrived, has brought leading politicians, economists and social scientists to West Berlin for seminars on problems facing the Western. Communist and Third Worlds.

Incidentally, the capital of former empire of Prussia, is planning to hold a spectacular exhibition in two years' time called "Prussia," along the lines of the Tendencies of the Twenties art exhibitioo which was a huge success in 1977.

The mere thought of Prussia causes Germans in other parts and many fureigners to wince. hut the exhibition might turn out to he a highly provocative and perhaps eye-opening event.

# Aspen Centre's success

THOSE DESIRING peace and ference hringing together among quiet in order to think more others. Albert Schweitzer, deeply are wise to look for an Ortega y Gasset and Thornton island. But those seeking a Wilder. The institute's negrative ing budget now exceeds \$4m-realities of international politics from public and private sources. will find it in Berlin. So an Its headquarters is in New York island in West Berlin seems and it has a board of interthe ideal spot for those who national trustees.
want both at the same time. The success of

Institute, perched on Schanen-werder Island in the Wannsee lake, oo the outskirts of West would take you towards the other way would carry you to the border with East Germany.

The institute of west as a student in the 124 and Germany in the post-way would carry you to missioner, John McCloy:

"Shep" Stone appears In the institute's main room with a view out across the water, hundreds of politicians, Schmidt and Dr. Henry Kis-academics, journalists and singer have been just two recoot others from many countries participants at Aspen)—but is have gathered over the years to discuss topics ranging from inclined to mumble or wander arms control and nuclear energy to education at the end of the

### Heated

ceotury.

Each meeting is limited to a maximum 24 participants so that the exchange is more intimate and frank than at many other international symposia. But however fascinating the topic and heated the discussion, it is hard to forcet at hard to forget at Aspen the political environment to which ideal theoretical solutions must be tailored.

Aspen, Berlin, is an offshont. of that "institute for humanistic studies" which hegan in 1949 in Aspen, Colorado, with a con-

others, Albert Schweitzer, Ortega y Gasset and Thornton Its headquarters is in New York

The success of the Berlin Since 1974 these conditions centre clearly hinges in large have ben fulfilled by the Aspen measure on its director. Mr. measure on its director, Mr. Shepard Stone, bonorary citizen, Berlin as a student in the 1920s and Germany in the post-war years as director of public affairs to the U.S. High Com-

> know almost everyone who is anyone (Chancellor Helmut no respecter of persons. Those from the point are rapidly put right hy a sharp interjection-however renowned they may be

Where does Aspen, Berlin, go from here? One clear answer is that it is ideally situated to profit from that developing dialogue between East and West Germany—whose significance goes far beyond the two German

states alone. It provides an ideal forum for detailed, personal discussion of political and cultural issues without formal political commitment From this viewpoint, it is not too fanciful to suppose that Aspen, Berlin, will be holding still more rewarding gatherings in the next

Jonathan Cart



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Save & Prosper Group K, Great St. Heleas, London EC3P 3EP 68-73 Queen St., Edinburgh EH2 4NX Dealings to: 01-554 8899 or 031-226 7351 41 -02 270 753 -154 286 753 -154 211 | 1.0 | 28.2 | 41.8 | -0.2 | 2.70 | 1.7 | 27.2 | 30.3 | -0.4 | 3.85 | 1.7 | 1.7 | 27.2 | 30.3 | -0.4 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 弱动线 绕 56.21 -1.17 4.39 ....|52.3 87.0 +0.9 3.67 93.9 +0.3 2.62 72.68 +0.2 0.64 9854 +0.4 338 813 +0.7 177 813 -0.5 330 Perpetual Unit Trust Mingmt. (a)

48, Hart St., Henley on Thomes

049:2 6868
P'petual Gp. 6th. | |53.2 | 57.2 | ... | 3.72

For Piccariity see Gibbs (Antony)

For Piccariity see Gibbs (Antony)

Prices at March 28, Next 

INSURANCE AND

Crusader Insurance Co. Ltd.

Egolty & Law Life Ass. Soc. Ltd.

General Portfolio Life Ins. C. Ltd. 9

Growth & Soc. Life Ass. Soc. Ltd. 9

Guardian Royal Exchange Royal Exchange, E.C.3. Guardian Assarance Property Bonds 1204.20 22

| Ltd. | Crown Life Assurance | 01-248 0111 | Fxt. | Int. Fd. | Incm. | 113 7 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1 | 115 1

Albany Life Assurance Co. Ltd.

J. Henry Schroder Wags & Co. Ltd. 9 01-240 3434 Scottish Equitable Fnd. Mgrs. Ltd.9 031-556 9101 12.0 .... 4.62 13.0 .... 4.62 90 Box 511, Boldbry, Hse., E.C.4. 01.236 5000 Sybag Capital Fd. 41.5 63 5st -0.5 3.15 Sebag Income Fd. 34.0 35.64 -0.4 7.65 15-19 Lincoln's Inn Fields, WC2 01-831 6936/9 Unvl Gth Tst Acc 252 26.9 ..... 4.52 Uppl 6th Tst Inc. 21.4 22.8 ..... 4.52 01-831 6936/9

Do. Accum
Extra Inc. Growth
Do. Accum
Financial Print
Do. Accum
High Inc. Priority
International
Special Sits. TSB Unit Trusts(y) · Ulster Bank¶ (a) Unit Trust Account & Mgmt. Ltd. Wieler Growth Fund King William St. EC4R 9AR Income Units \_\_\_\_\_\_33.8 Accum. Units \_\_\_\_\_\_40.4 1197 - 1226 1182 - 0.7 726 1182 - 0.7 726 1027 - 1225 1024 - 08 928

BONDS London A'deen & Nthn. Mtl. Assur, Ltd. Royal Insurance Group Save & Prosper Groupy

583511. 40.0 +0.1 -35.0 +0.1 -37.1 -0.1 be. 0494 33377 142.8 -2.0 -126.7 -0.9 -108.4 -1.0 -The London & Manchester Ass. Gp.9 111111111 neras Porceono Litte Ins. G. LTd. v Bartholomew CL, Waltham Crops. WX31972. 1606 Fd. Acc. 1611 1606 Fd. Int. 1601 Folio Managed 451 160. Fd. wt. 47,7 50.1 . M & G Groupy

124.4 +2.4 108.8 +2.4 1610 +2.4 Weir Bank, Bray-en-Thames, Berlet. 0628-34264;
Flexible Finance 1890
Landbank Secs. Acc. 1213
E. & S.: Super Fd. E8167 Ledn Hse, 233 High St., Cropdon, Progerty 165.5 177.6 177.6 179.6 Eastly Pers. 212.8 Movey Market 253.9 01-686 9171. 01-283 7107 212,701 +2.64 --

Target Tst. Mgrs. (Scotland) (a) (b) 19, Alton Crescent, Edir. 3. 031-229 862 Target Amer. Eagle 26.2 28.2: 40.4 2 Target Thissile. 46.7 60.2: 1.1 5 Extra lanceme Fd. 64.0 66.2: -0.4 9.

Carribi: March 28 — 83.0
(Acction, Units) — 70.6
(Sen March 27 — 59.2
(Acction, Units) — 70.6
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(Acction, Units) — 70.3
(Acction

Tendali Managers Ltd.9

(Accum. Units) 28 12 Exempt March 28 12 (Accum. Units) 18 Int. Earns, March 28 25

Landon Wall Group Capital Growth

114.2 25.6 154.4 220.2 111.0 190.4 307.8 116.2 147.0

031 225 116

35.65 ..... 133

Schroder Life Group 

Denosit Fend 120.0 126.4 -0.3 |

Sun Life of Canada (UK) Len.
2, 3, 4, Cocksaur St., SW1Y SEH 01-930 5400 |

Maple Li, Grith 239.8 | 49.3 | 77, rue Notre-Dame, Lincembourg Fleming Japan Fund 5.A. 37, rue Notre-Dame, Lincembourg Fleming March 28... | SUS57.82 | .... |

Pers. Man. Acc. 108.6 114.4 | 4.3 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8

## Phings Inv. Fd. Int. | 186.7 | 12.3 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12

0392-52155

Winslade Park, Exerer. 0392-52155
Moreymaker Ed. 1129 | +1-4| For other funds, please refer to The London 6
Manchester Group.
Windsor Life Assur. Co. 1td.

OFFSHORE AND OVERSEAS FUNDS

Three Quays, Tower Hill EC3R 690. 01-626 4588
Allantic March 27 50515 3,444
Aust, Ex. March 28 505-53 2777 —
Sald EARC March 28 506218 14,18

Phoenix International

Rothschild Asset Management (C.I.) P.O. Box 58, St. Julians Ct., Guerosey. 0481 26

Schlesinger International Most. Ltd.

Surinvest (Jersey) Ltd. (x)
Queens Hsc., Don Rd., St. Helier, Jsy. 0534 27349
Arrerican Ind.Tst. | 16.53 | 6.73 | 7.73 |
Copper Trust | 15.53 | 16.00 | -2.71 |
Jap. Index Tst. | 15.53 | 16.00 | -2.71 |
Jap. Index Tst. | 15.83 | 16.00 | -2.71 |
Jap. Index Tst. | 15.84 | 16.00 | 17.00 |
TSB Glar Rd., St. Santour, Jersey | 0534 75-94 |
TSB Glar Rd. St. Santour, Jersey | 0534 75-94 |
TSB Glar Fund | 153.8 | 16.00 | 4.24 |
Prices on March 28, New 18th day April 4,
TSB Glar Fund | 109.0 | 112.00 |
TSB Glar Fund | 109.0 |
T

Prices on March 28, Nert sub 42, April Tokyo Pacific Holdings M.V. Intints Management Co. N.V., Corsess, NAV per share March 26, SUSC4.43 Tekyo Pacific Midne (Contact)

Tekyo Pacific Hudgs. (Seoboart) N.V. Intimis Management Co. N.V., Curacao NAV per share March 26, SUS46,95. Tyndall Group P.O. Box 1256 Hamilton 5, Bermuta, 2-2760

Victory House, Designs, Ide of San, 0624 24211.

Managed March 22 ... 147.2 155.0 ... 1

Unitife Assurance (Overseas) Ltd.

P.O. Box 1388, Hamilton 5-31, Bereutal
Internt. Mood. Fd. ... 1455.9 ... 1-0.03 ...

Union-Investment-Geselbschaft mbH

14. Mulcaster Street, GL. Heller, Jersey U.I.B. Furd [MSDET 104.84]-104 7.07 United States Tst. Intl. Adv. Co.

14. Rue Aldringer, Lincempourg. U.S. Tal. Inv. Fund ... | USSTLOB |-563| 0.50 Not asset (Jarch 27. S. G. Warburg & Co. Ltd.

L Charmo Cross, St. Hoher, Joy. C. 5534 73742 CMF Ltd. Feb. 22 ... £23340 13.55 2.39 CMF Ltd. Feb. 22 ... £2340 14.29 2.39 Febric Tu. March 15 £14.09 15.71 5.34 TLST March 8 ... £25.23 19.87 1.03 T.M.T. Ltd. March 8 ... £25.23 19.87 2.39

World Wide Growth Managements 10x, Boulgard Royal, Lexemoung Worldwide Gib Fd| SUS27.09 |-152| — Wren Commodity Trust 

Warburg Invest, Mogt. Jrsy. Ltd.

01-600-4555 |-309 --|-024 --

Dealing to P.O. Box 73, St. Heller, Jersey

Schröder Life Group Enterprise House, Portsmouth,

0534 2744

Australian Selection Fund NV Market Opportunities, co Irish Young & Outhwaite, 127 Kent St., Sydney

Barclays Unicern Int. (Ch. Is.) Ltd

| Thomas St., Douglas, I.S.M. | 0624 4856 | Unitern Aust. Ext. | M9.7 | 53.5 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 

U.S. Dolta: Desconducted Feb. Univel. S Tsl. SUSS.02 6.13 +11 Int. High Int. Tst. SUSS.07 1.0ot ... 9.00 Value March 20. Next dealing April 2 Brown Shipley Tst. Co. (Jersey) Ltd. Butterfield Management Co. Ltd. Prices a March 12 Ner under March 20 Land 172
Butters Income 12 Ner und day April 9
For Capiting SAS SAS et under Keyser Ulinan Link
Capital International S.A.

1 Paternoster Row, EC4

Clive Investments (Jersey) Ltd. P.O. Box 320, St. Heller, Jersey 0534 37361. Circe Gill Fd. IC.1. 11107 11.07 9.94 Circe Gill Fd. Ltsy. 11106 11.09 ..... 9.92 Combil Ins. (Guernsey) Ltd. DWS Deutsche Ges. F. Wertpapiersp

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FT BUSINESS OPINION SURVEY

# **Economic hopes** still at low level

the prospects for the UK ness outlook, with labour economy continued to fall last unrest, fears of recession and month. according to the gloomy affitudes to world Financial Times survey of husiness opinion, published this most commonly cited reasons. morning. Confidence remains at the lowest level since the end of March, covered executives in the forms of the survey.

**Teamsters** 

confront

Carter

1976, when the International huilding and construction. Monetary Fund deal was being textile and clothing and food pegotiated.

huilding and construction textile and clothing and food and tobacco sectors. The inter-Industrialists were also pessi- views were conducted well

ARNINGS ON CAPITAL						Massis 10	70
	4 monthly moving total				March 1979		
Those expecting earnings during the	Dec- Mar. %	Nov Feb.	Oct Jan.	Sept- Dec.	Constru tion %	Tobacco	%
Improve	62	57	51	. 49	60_	35	54
Remain the same	23	22	19	17	- 25	27	29
Contract	8	11	17	22	11	19	12
No comment	7	70	. 13	12	4	19	S

apparent.
The survey finds some evi-

One of the main complaints were more optimistic on total dence of slackening demand, over the conduct of the unit costs.

both at home and abroad, with economy was the unequal level a decline in prospects for of pay settlements. It was exports and the level of turn-feared that these might lead to over over the coming year. However, new orders re-industrial trouble before the mained at a relatively high end of the current wage. level, as did order hooks, aug- round.

INDUSTRY'S confidence about mistic about the general busi- before the likelihood of an early gesting that the drop in demand While industrialists were the prospects for the UK ness outlook, with labour General Election became has not yet bad a serious slightly less optimistic about

However, both the huilding and food sectors expected profit margins to contract, with price competition, as well as wage and cost increases thought to he the key reasons. Details, Page 6

UK ready

with EEC

budget

protest

BRITISH MINISTERS are

BRITISH MINISTERS are expected to use a two-day joint meeting of EEC finance and foreign ministers, starting in Luxembourg today, as a platform for lond protests about the alleged unfairness of the UK's contributions to the Community Budget.

The view in both Brussels

and Loudon is that the pro-tests will be produced much more for domestic political consumption ahead of the

election than any serious hope of securing early agreement on changes in the Community

Denzil Davies, the Minister of

They are expected

develop the criticisms of pre-

sent EEC arrangements which were expressed strongly by

Mr. John Silkin, the Agricul-

ture Minister, in Brussels

last Thursday, much to the

annoyance of other EEC

In particular, Mr. Davles

is expected to selze on figures pohlished last week that the UK is the higgest net contribu-

tor to the EEC budget.

Both major parties

Britain are agreed on the

need for changes in the Common Agricultural Policy

and in the budget as whole though they differ both inter-nally and between each other

Some Tories have recently

been critical of suggested

solutions involving a rise in the EEC Budget, through, say,

an expanded regional fund.

hecause of their desire to

check the overall size of

.The main item on the

agends of today's meeting is

a Commission Green Paper on

financed in the 1980s. This

calls for an adjustment in the

pattern of contributions to

ensure that less prosperous

than rich countries. Mr. Davies has already welcomed

the idea floated by the Com-

mission that there might be

a progressive element in way contributions are

Among the other subjects

due to be raised are relations

with Turkey and Yngoslavia

on the eve of further dis-

cussions with Greece about its

entry into the EEC.

how the EEC Budget might he

poblic spending.

members do not

calculated.

on the desirable answers.

ministers.

State at the Treasury.

after the election.

By Peter Riddell '

policy TEAMSTERS' UNION has launched the first major challenge to the wage guidelines of

wage contract for some 300,000 drivers and warehousemen broke down, even though the two sides were close to agree-

Mr. Frank Fitzsimmons, president of the scandal-ridden union, selective strikes across the country in an effort to force the employers—and the administration—into accepting an agreement which would almost certainly breach the anti-

luffation policy.
President Carter has acknowledged that so far as the wage guidelines are concerned, the settlement in the trucking industry is a critical test. The administration's anti-inflation guidelines have their origins in the Lahour Department, which feared that settlements in this year's crucial round of wage negotiations could underpln an even higher rate of inflation.

Mr. Fitzsimmons blamed the talks hreakdown on Government iotervention in the collective hargaining process

It appeared both sides had accepted a basic \$1.50 an hour increase on the current average of around \$9.40. Since the negotiations opened, however, it has heen recognised that the most difficult part would he to reach agreement on the package of henefits, including such things as pension payments and cost of living allowances. So it has

# Veather

UK TODAY SHOWERS in all areas. Snow on high ground heing heavy and Generally cold. Max. 10C (50F). Loudon, E., S.E., Cent. S.,

Cent. N. England, E. Midlands Sunny intervals, Becoming dry later.

Wales, W. Blidlands, W. England, Channel Islcs Sunny intervals, showers wintry on hills. Mainly cloudy

Scotland, Uister, N.E. Eugland Wintry showers or longer outbreaks of sleet or snow. Sunny

Outlook: Unsettled. Showers or longer outbreaks of rain in

many places. Sleet or soow chiefly in the north. Night frosts,

WORLDWIDE								
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Gibritr.	s	19	RP	Tol Aviv	5	75	77	
Glasgow	R.	4	35	Tenarile	C	12	54	
O'msay	C	9	48	Tokyo	5	15	S9	
Halzinki	Ĉ	3	37	Tolonto	Č	S	40	
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	-			E- E-	_			
C—Cloudy. F—Fair Fo—Fog. R—Rain. S—Supply 51—Sleet. Sn—Snow.								

# Andreotti resigns as Italy coalition falls

THE NEW Italian coalition Government of Christian Democrais, Republicans and Social Democrats was defeated in the Senate confidence debate at the weckend hy a single vote, open-ing the way to an early General

President Carter's acti-inflation policy in the U.S.

Early yesterday, weeks of intense talks in the trucking industry over a control of the prime Minister tendered his resignation to Sig. Saodro Pertini, the Italian Presi-

> Although President Pertini might try to seek an 11th-hour compromise to avoid early elections, a reconciliation hetween the country's two main parties, the Communists and the Christian Democrats, is generally ruled out at this stage.

The President has summoned Sig. Pietro Ingrao, the Com-munist leader of the Chamber of Deputies, and Senator Amintore Fanfani. the Christian Democrat leader of the Senate, to a meeting today.

The Communists, who are holding their 15th national con-

gress, again declared unambi-guously at the week-end that any agreement would have to they intend to pursue the bard see direct participation by their party in any new Government. The presence of Communist Ministers in the Cahinet has heen rejected equally firmly by the Christian Democrats.

In the face of the deadlock, President Pertini is expected to dissolve Parliament in order to combine the General Election with the elections for the new European Parliament, to be held in Italy on June 10.

### Opposition

During the two electoral cam-paigns, Sig Andreotti's Govern-ment would remain temporarily in office as a caretaker adminis-

The coalition Government judiciary, was widely expected to lose the Official confidence vote because of the opposition of the two main Increase
Left-wing parties, the Communists and the Socialists.
For their part, the Commonths.

line that would lead to their opposing any future Govero-ment in which they were not directly represented.

That largely reflects the discontent and discomfort that the former alliance with the Christian Democrats provoked with-in the party and the leadership's attempts to recover the vote on the Communist Party left.

Meanwhile, the country's climate of political uncertainty has deteriorated in the light of growing signs of renewed inflation and the possible repercussions of the controversial Bank of Italy affair, which has now caused a significant dispute hetween the country's political and economic forces and the

Official figures released at the weekend show a 1.7 per cent increase in wholesale prices over January, confirming the worrying trend of the past few

# Fresh Government funds up to £150m set for BL

BY JOHN ELLIOTT, INDUSTRIAL EDITOR

FRESH Government totalling about £100m to £150m are expected to he announced today for BL, formerly British Leyland.

The way will he cleared for National Enterprise Board to £4.5hn, to receive the Royal Assent this week.

NEB's five-year corporate plan, which has been with the De- Lords. partment of Industry for some weeks, will be approved hefore

the General Election. This will give

the Industry Bill, which raises reduce the NEB's entrepre-the horrowing limits of the neurial activities while main-

money it urgently needs to push NEB to fund both BL and Rolls-Royce in the coming months, despite the uncertain

Formal arrangement has been li seems unlikely that the reached between the Govern-

next

without having to recall the plan from Sir Leslie Murphy, chairman of the NEB.

Conservative leaders have made clear that they intend to neurial activities while maintaining it at least to look after lame-duck companies such as BL and Rolls-Royce.

This provides BL with the minster and Whitehall at the intensive discussions in Westahead with investment pro- minster and hWitehall at the gramme. It will enable the end of last week.

Although there appeared no way that the Industry Bill. which is in the Lords today for future that some of its activities its Third Reading, could be held may face under a Conservative up, it is understood that an inment and Tory Whips in the

> This is that once the Bill receives the Royal Assent, the NEB will make extensive use of its new horrowing powers only immediate to fund BL and Rolls-Royce in 1982.

funds chance to review its proposals during the General Election

This has some political significance, but should not affect the operations of the NEB, which is unlikely to finalise any major entrepreneurial deals in the coming month. In any case it has £130m of its present £1hn horrowing limit still in hand. Mr. Eric Varley, the Industry

Secretary, is due to announce the new funding arrangements for BL in the Commons in to a Parliamentary question on the company's future.

BL needs a further tranche of the £1hn long-term advances agreed by the Government to fund major investment protects. which this year are expected to exceed last year's total of £233m.

The projects include expanding Land Rover and Range Rover production, introducing the "super-mini" next year, and replacing the Marina range

# Unions seek Whitley break-up

BY PHILIP BASSETT and NICK GARNETT

union dispute the two higgest year. Civil Service unions decided yesterday to attempt dismantling the whole national negotiating machinery for the 600,000

strike over pay, which may ance. seriously effect air flights and Tho other services, the Civil and Public Services Association and the Society of Civil and Public Servants decided to withdraw from all meetings of the central policy-making committee of the Staff Side on the National Whitley Council.

eight-union staff side and representatives of the Civil Service Department, has negotiated wages and conditions for nearly 60 years.

In a bitter procedural wrangle with other unions and the Government, the two unions, together representing half the civil servants, have decided Io inform the national staff side meeting on Thursday that they have no confidence in it and that the present machinery should be

The executive of both unions, which intend drawing up alternative proposals for a national negutiating system, formally rejected the Government pay offer of 9 per cent, with half the rest of the rises due from a comparability study

The Institution of Professional Civil Servants, the First Divi-sinn Association and the Association of Government Supervisors and Radio Officers are On the eve of today's one-day prepared to recommend accept-

The Prison Officers' Association has told Ministers that its overtime ban will go ahead until its executive considers the offer on Wednesday. The Civil Service Union and the Inland Continued from Page 1 Revenue Staffs Federation arc both unhappy with the offer. The council, made up of an are low-paid and the offer is weighted toward the higher staff

The present crisis on the staff side stems from a meeting on Thursday, a day helore formal pay negotiations, at which Mr. have flown in nuclear experts. Roy Hattersley, the Prices Secretary and public-sector pay co-ordinator, met general sec-retaries of five of the smaller Civil Scrvice unions.

Mr. Ken Thomas and Mr. Gerry Gillman, general sec-retaries of the CPSA and the Society of Civil and Public Servants, said yesterday that they had been deliberately excluded from what was in effect s "secret" meeting on Thursday.

The Civil Service Department and some other unions denied that the meeting was secret, and were adamant that

IN A further hout of inter-remainder on March 31 next the two general secretaries had heen invited

A CPSA statement said the union had full confidence in Mr. Bill Kendall, sccretary-general of the Staff Side, who was also not at the Thursday meeting, and that the blame for the affair lay at the door of Mr. Hattersley.

Why civil servants strike, Page 27

# Carter at N-plant

handling and outcome uf the bydrogen gas bubble expanding. accident. The NRC in Washington has briefed British, Swedish announced that its insurers, C and Japanese representatives. American Nuclear Insurers, will while France and West Germany take claims from residents for

keep the large hydrogen gas the \$1bn (£500,000) plant itself hubble filling the top of the could run into buodreds of reactor from reaching any millions of dollars. explosive level. Metropolitan-Edison said vesterday that gases Secretary, has been urged to were being drained from the stop immediately work on the reactor to prevent this. The proposed nuclear power station second problem is to reduce the at Torness in East Lothian. The size of the bubble, which is hig enough to block further cooling Atomic Menace, making an

of the reactor fuel core. Severe damage to manium said: "This was the accident fuel rods has kept reactor tem- they said couldn't happen. perature high-still around 280 pressure inside the reactor is per square inch to stop the people of East Lothian."

The power company has any expenses of their evacuation The immediate concern is to and for any damage. Damage to

Mr. Bruce Millan, the Scottish Scottish Campaign to Resist the appeal to Mr. Millan yesterday

If Torness is hullt then a fahrenheit - while similar threat to that over the people of Harrisburg, Pennbeing maintained at 1,000 lbs sylvania, will hang over the THE LEX COLUMN

# The Budget that never was

Following the defeat of the Government in the Commons the Conservatives have refused to allow Mr. Denis Reoley to present a normal Budget speech tomorrow. Many weeks of work by o top Treasury team have therefore been for nathing. How ever, from a usually reliable source we have been oble to obtain a draft of what the Chancellar had intended to say.

"Since this is to be my final Budget speech. I hope my honourable friends in the House will forgive me if I start on a personal note. I was tonched this morning to receive a message of congratulations and thanks from a representative of the Association of Tax Consultants, in grateful recognition of all that I have done for their volume of husiness since 1974. They have presented me with the Golden Loophole award

for 1979, an honour which car-ries with it a free holiday in the Cayman Islands. Messages of congratulations and best wishes have also come

from the Society of Gilt-Edged Dealers, the Lease Brokers
Federation and the Guild of
Investment Currency Traders,
the last of which have said they
really do not know what they
will downen I have sone. "My period of stewardship is ending with the economy in an

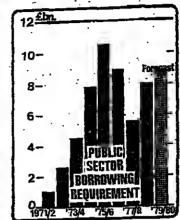
unusnally healthy state. As you know, sterling has been one of the strangest currencles in the world recently, in soite of the absence of the monthly trade foures, and investors in the City have been literally fishting tn hav Government securities. " Our efforts to stimulate the

"Our efforts to stimulate the so-called black economy have been highly successful, and I am grateful to Sir William Pile. Chairman of the Board of Inlaod Reveoue, for his statistical work on the subject. Accordingly today we are publishing revised national income figures which take this unofficial activity fully into account. They show that economic growth last year was not 3 per cent but 8 per cent. Consequently, no major decisions are likely to he taken and the other EEC governments will not want to bave serious discussions until The British team will he headed by Dr. David Owen, the Foreign Secretary who is believed to have decided to attend only after the election was anounced, and by Mr.

## Stop for Red

"I must, however, make one apology. We have been unable to produce the normal Red Book which customarily accompanies a full Budget statement, because of an industrial dispute in the Clvil Service. "When hur computer pro-

grammers learoed of the low budgeted figure for the rise in their salaries they immediately went on strike. However, the calculations for the Budget have been carefully checked by my



"There is much talk these days about the public sector borrowing requirement—far borrowing requirement—far too much talk in my view, considering that our Government borrowing in this country is so much lower than in many countries overseas such as Turkey Argentina or Zaire, to name just a few.

I must say that I have had some difficulty in deciding exactly what the trend of horrowing in the coming financial year was likely to be. You may be aware that the Treasury customarily produces four forecasts of the PSBR during pre-Budget periods.

"One is a ridiculously high one that is leaked to some of the more credulous City analysts so that the figure which is eventually published at the time of the Budget, will seem unex-pectedly good by comparison.

"The second is an estimate that is discreetly circulated to

the Cabinet to persuade the Departments to keep their spending down. The third is the one my officials tell me. But they keep secret their central estimate, the one they really

"The phoney figure which was told to the young men who write hrokers' circulars was, you may have noticed from

could conveniently he changed to the 'Healey bonus.' "Plainly this £10hn was an

sector pay will show that salaries again."

are at least 10 per cent too high, with a few exceptions, such as the Treasury.

acto

"Several other measures are relevant to the PSBR 1 am proposing, for instance that gilt-edged investors will be offered a highly attractive oppoin. orered a nighty actuactive oppor-tunity to convert into a new form of Treasury Deferred stock, the key feature of which is that no interest will be paid during the 1979-80 financial I have also ordered the Bank

of England to lower its Minimum Lending Rate from 13 to 4 per cent with immediate effect. No longer will British interest rates be anomalously higher than those of weak currency countries like West Germany. "This will have the purely incidental effect of reducing the

Government's short term horrowing costs substantially and adding this economy to that on gilts I estimate that the total saving of debt interest will be almost £3bn.

" Making these adjustments to the secret Treasury PSBR fore-cast which I have at last forced out of my officials I can now say that the horrowing requirement on unchanged policies in 1979-80 would have been no more than

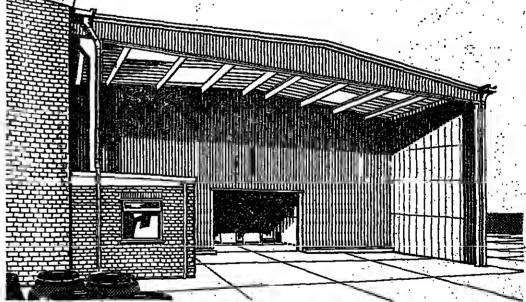
### Much relief

"This allows me to propose tax reliefs of £6bn. You will appreciate that since the Budget taken as a whole is a strictly neutral one there is no question of them. question of there being any element of electioneering in this. A precaution is necessary, bowever. Because the City has shown a tendency to misinterpret my Budgets in the past-the stock market and the foreign exchanges will be closed until further notice.

My specific measures arebriefly as follows. All duties on alcoholie drinks will be abolished, as will all betting and gaming taxes. Value added tax rou may have noticed from Press coverage, no less than £10bn.

"This was after the implementation of the indexation of income tax allowances which is required by the so-called Ronker-Wise Amendment, a clumsy title which I helieve ship of the Lahour Party it will not be possible to extend the will be halved. As for income

not be possible to extend the benefit of the income tax relief fully to the higher rate bands. absurd figure, which did not take account of the huge savings in public-sector salary costs which are likely to arise from 98 to 97½ per cent, I am take account of the huge savings in public-sector salary costs which are likely to arise from 98 to 97½ per cent, I am take the property of the property o extensive strike action this permitting net of tax income to year. Moreover, we estimate rise by no less than a quarter. that the comparability studies After this, tax consultancy will to be carried out on public- surely never be the same-



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